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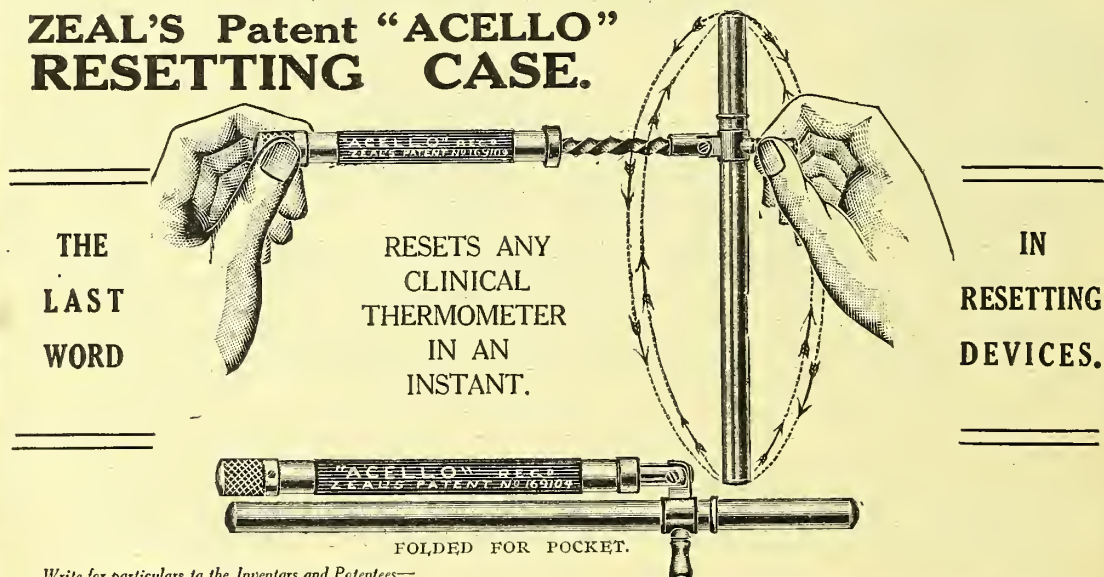


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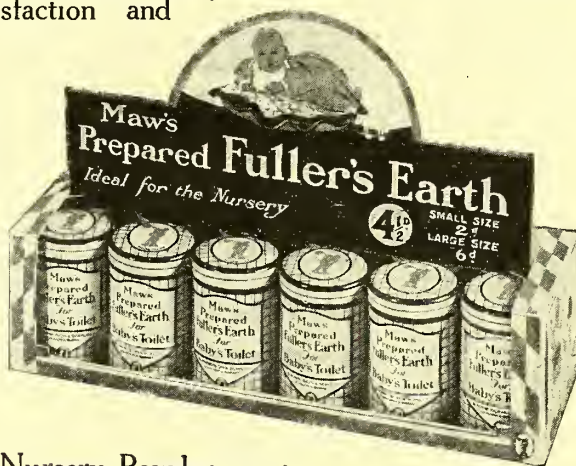
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Chas. Wilson, P.O. Box 2086, Johannesburg.

Messrs. Lennon, Ltd., Cape Town; and branches.

NEW ZEALAND.—J. L. Lennard, 54-58, Dixon Street, Wellington.

RANGOON.—E. M. de Souza, 271, Dalhousie Street, Rangoon.

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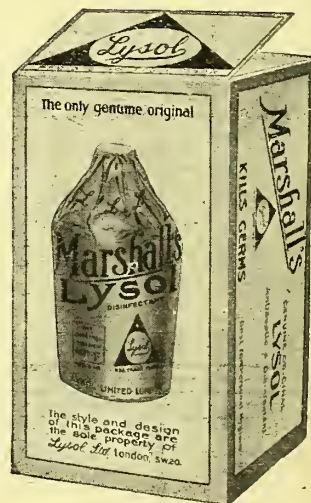
## LYSOL LTD.,

RAYNES PARK, S.W. 20

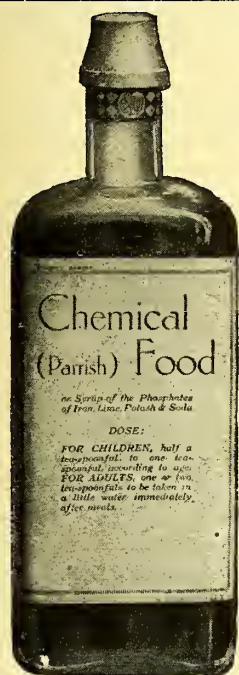
Telegrams—

Foreign: "Lysolant, London."

Codes used: { A.B.C. Fifth Edition, Lieber's, Premier  
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# CHEMICAL FOOD

EVANS' Chemical Food is a pure phosphate syrup made with pure crystallized sugar. *It contains no hydrochloric acid, citric acid, glucose or other extraneous ingredients, and has practically no styptic taste.*

Have you seen our packed article? It presents a brilliant syrup put up in white flint bottles with type or lithographed script label. Capped like a neatly gloved hand, it presents an appearance of simple refinement and of inimitable *cachet*.

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EVANS SONS LESCHER & WEBB, LTD.  
LIVERPOOL      New York      LONDON

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Directors : D. MISELL. A. A. DENT.

4 Carlisle Avenue, Fenchurch Street, LONDON, E.C.3.  
Works : HULL.

Manufacturers of Synthetics and Importers of Essential Oils  
and Pharmaceutical Products.

Telephone No. : Avenue 1419.

Telegraphic Address : "Essynthet, Ald, London."

We are the Sole Selling Agents for the Co-operative Society  
of the Proprietors of Flower Groves, Vallauris and Pegomas  
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Concrete or Absolute.

JASMIN, ROSE,

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## "NEROLIUM"

Orange Absolute, Concrete Orange,  
Neroli Pure.

All the above products are  
distilled on the Grower's  
own estate.

They are sold under  
guarantee of purity.

Samples can be had  
on application.



**BENZYL BUTYRATE.**—Com-  
bined with Benzyl Acetate  
produces a fine Jasmin odour.

**CITRAL 100%.**

**GERANYL BUTYRATE.**—Useful for its  
sweet odour in combination with  
Rose Compositions.

**GERANIOL EXTRACT FROM JAVA.**

**GERANIOL FROM PALMAROSA.**—Its supe-  
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Oils is admitted. Its sweet Rose odour  
makes it suitable for Rose Compounds.

**GERANIOL ACETATE. GERANIOL FORMATE**

**GERANIOL VALERIANATE.**

**HYDROXYCITRONELLAL.**—Pure (Lily of the Valley base).

**IONONE ALPHA. IONONE BETA. IONONE 100%.**

**IONONE FOR SOAPS.**

**METHYL IONONE.**

**VERT DE VIOLETTE.**—Natural product of Violet leaves—  
"The green of the Violet." Gives to Violet perfumes  
the suggestion of "Greenish" colour odours so appreciated in  
a bunch of Violets.

**LINALYL ACETATE 92%.**—Ester from Bois de Rose. A colourless  
oil with the characteristic odour of Bergamot. Specially adapt-  
able to Lily of the Valley and Jasmin odours.

**METHYL SALICYLATE.**

**PHENYL ETHYL ALCOHOL.**

**PHENYL ETHYL BUTYRATE.**—Combines with Phenyl Ethyl Alcohol,  
producing in Rose odours the sweet smell of Rose leaves.

**PHENYL ETHYL FORMATE.**

**PARACRESOL ACETATE.**—For Narcissus base.

**RHODINOL OTTO.**—A New Production.—This has been recently perfected and is  
one of the most useful products offered to perfumers. It is a true reproduction  
of the active perfuming principle of the Rose.

The dominant quality of RHODINOL OTTO is its Rosy Sweetness ; the tenacity  
of its original sweetness is apparent even after drying out on the test paper. This  
stamps its purity and we guarantee its entire freedom from blending. It can be  
used in all types of odours of which Rose is the base, the results being comparable  
only with those obtained by using the natural product.

**RHODINOL NO. 1.**

**RHODINOL ACETATE.**

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**LINALOOL** from Bois de Rose.

**TERPENYL ACETATE.**

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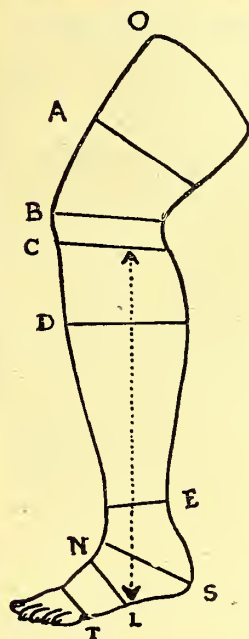
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## STANDARD QUALITIES.



	Good stout cotton in natural or white. Stock sizes (Size 7 and over extra)	Silk make, in pink, flesh or white. Stock sizes (Size 7 and over extra)	Extra for making to special measure
Anklets - - per pair	7/-	per pair 13/-	1/9
Knee Caps - - „	7/6	„ 13/6	1/9
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*Prices for Thigh Pieces, Thigh Leggings, Thigh  
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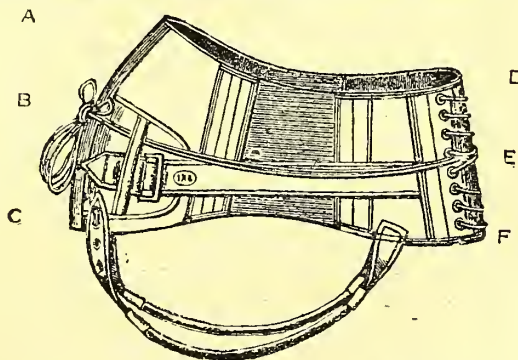
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Ladies' and Gents' Supporting Belts of every description.

## Dr. Monroe's SPECIAL COMBINATION BELT

For Floating Kidney, Uterine, and  
General Support, Broad Fulcrum,  
Under-straps. Pneumatic Pads are  
added for above purposes or according  
to Medical instructions.



**AYRTON, SAUNDERS & Co., LTD.**  
Manufacturing Chemists - - LIVERPOOL, Eng.

# "THE GENUINE" EAU DE COLOGNE

OF  
JOHANN MARIA FARINA,  
GEGENÜBER DEM JULICHS-PLATZ  
COLOGNE

HAS had a world-wide reputation for over 200 years, and has obtained the highest awards at all International Exhibitions—London, 1851 and 1862; Paris, 1855 & 1867; Grand Prize, Paris, 1900.

## THE LABEL.



is probably the most widely imitated Trade Mark in the world—but note the inverted "r" (almost like a "z") in the name Farina—no less than thirteen actions have been successfully brought in the High Court of Chancery to protect it.

IT SELLS at sight because it is known to be the genuine and original Eau de Cologne.

## Protected — P.A.T.A. — Prices.

	Each		Each
No. 00—Watch Flask ... (1 oz.)...	2/6	No. 3—Double White Bottles (8 oz.)...	16/6
No. 01—Short White Bottle (1 oz.)...	2/6	No. 4—Small Wicker Bottle (6 oz.)...	12/6
No. 0—Watch Flasks ... (2 oz.)...	4/6	No. 5—Medium " " (12 oz.)...	25/-
No. 1—Short White Bottles (2 oz.)...	4/6	No. 6—Large " " (24 oz.)...	50/-
No. 2— " " " (4 oz.)...	8/6		

Every Chemist should send an Order, we pay Carriage.

For Prices and Highly Advantageous Terms apply :

**BLACKALLER & PLEASANCE**  
8 LAURENCE POUNTNEY HILL : : LONDON, E.C.4.





# LILAC DISTOL

## A Perfume of the Countryside.

**T**HE advent of the "Chara" has revived the half-forgotten joys of the open road with its fragrance of lilac and honeysuckle. This call to the countryside creates a demand for the simple English perfumes which can be so faithfully, quickly and economically reproduced in your own pharmacy from "Distol" Ottos.

There are many English floral odours among the 40 "Distol" Ottos, an ounce of any of which makes 80 ounces of choice perfumery by the simple addition of S.V.R. and Aqua Dest. without tinting, filtering, blending, distillation or any other time-absorbing process. Price 7/6 per oz. Samples of any six on request.

**THOMAS KERFOOT & CO LTD**  
BARDSLEY VALE, LANCASHIRE,  
& Bardsley House, London, N.1  
ESTABLISHED 1797.

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# ALKIA SALTRATES<sup>AND</sup> REUDEL BATH SALTRATES

The extreme height of perfection in salines. The best that can be produced regardless of cost. (3/3 P.A.T.A.).

The best of all bath preparations, either for medicinal or general toilet use. (2/- and 3/3 double size P.A.T.A.).

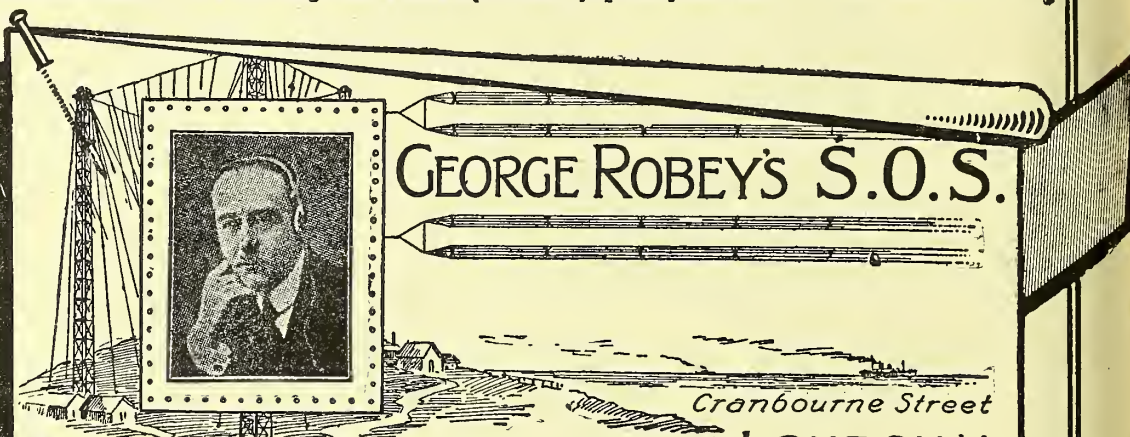
**They never stay long on your shelves, because they please the customer EVERY TIME.**  
*Never Let Your Stock Run Too Low.*

**NO STOCK — NO SALES.**

## A LETTER THAT EVERY CHEMIST SHOULD READ.

**"Do I still have to travel to Continental Spas?  
No, NO,—n'n'n' NO. I take my cure at home,"**

Says **GEORGE ROBEY**, the inimitable comedian, who like Sir Harry Lauder and numerous others amongst the really great stars of the theatrical firmament, has joined the long list of prominent men and women who have used our Saltrates with results so pleasing that they have kindly written us in grateful acknowledgement of the wonderful benefits derived. No other preparations in the world have ever received such endorsement. The following letter is here reproduced by special permission. **SALTRATES, LTD.**



**Messrs. Saltrates Ltd.  
Euston Buildings,  
London. N.W.1.**

*Cranbourne Street*  
**LONDON. W**

March 8th. 1920.

Dear Sir:— That was a good turn you did me in donating the supplies of Alkia Saltrates and Reudel Bath Saltrates that I ordered for the hospital. The favour is appreciated by me as much as the Saltrates are appreciated by all who use them, myself of course included. No one can accord anything higher praise than that.

Personally, I never could be sure of remaining in perfect bodily health and comfort without always having both Alkia and Reudel right where they are handy when wanted. I needed these Saltrates of yours long before commencing to use them, years ago. "Oh! How can I tell you my feelings" in those days. Now, I have no more internal or external aches or pains, no more tired feet or muscular strains. Do I still travel to Continental Spas? No, **NO - n'n'n' NO!** I take my cure at home.

I realise that every manufacturer appreciates the testimony he knows his products deserve, and it gives me pleasure to acknowledge the benefits derived in my own case. If you consider that my recommendation may be useful in helping others help themselves by using Alkia or Reudel, I have no objection to your quoting this letter.

Yours gratefully

*George Robey*



*On the List of Government Contractors.*

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"4 MEDALS" BRAND.

*For the immediate production of*

## Tinctures, Infusions, etc., etc.

Guaranteed to conform to all requirements of the B.P.

- ☞ Highly concentrated soft extracts (in some cases 1 vol. to 100 vols.) readily soluble in the menstruum directed by the British Pharmacopœia for the corresponding Tincture made as required from time to time.
- ☞ It is therefore no longer necessary for buyers abroad to pay heavy duties in importing Tinctures, and the saving in not having large sums locked up in spirit is enormous.
- ☞ The Concentrated Extracts do not contain any spirit and take up little space, while freight and charges are of course trifling compared with ordinary Tinctures.
- ☞ These excellent and economical preparations are especially suitable for export buyers at the present time, when fiscal spirit duties are so enormous.
- ☞ Correspondence is always welcomed from over-seas houses, and a small order will enable buyers to thoroughly test the advantages claimed.
- ☞ We introduced the Concentrated Extracts a few years ago, and our name has been closely associated with the manufacture of Concentrated Preparations for more than forty years.

*Lists and full particulars on application.*

## H. E. STEVENSON & CO.

*Wholesale Druggists and Manufacturing Chemists,*

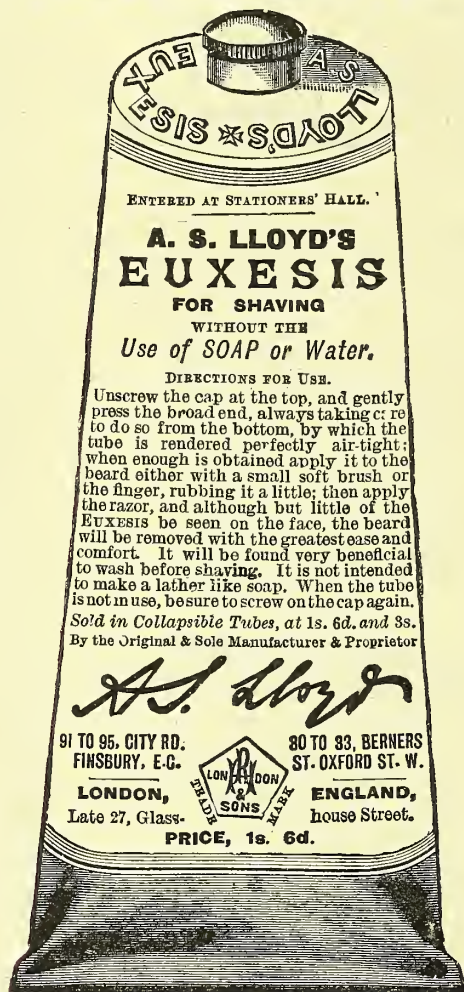
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# A. S. LLOYD'S EUXESIS

(THE GENUINE).

For Shaving without Soap, Water, or Brush.



Sold by all Perfumers and Chemists  
throughout the World.

R. HOVENDEN & SONS having purchased, under an administration suit, the Business of the late A. S. LLOYD, with the Receipt, Trade-Mark, and Goodwill of the celebrated Euxesis, the Trade are cautioned that the original and genuine Euxesis is now manufactured at our Factory ONLY and may be obtained at either of our Warehouses.

PRICES ON APPLICATION.

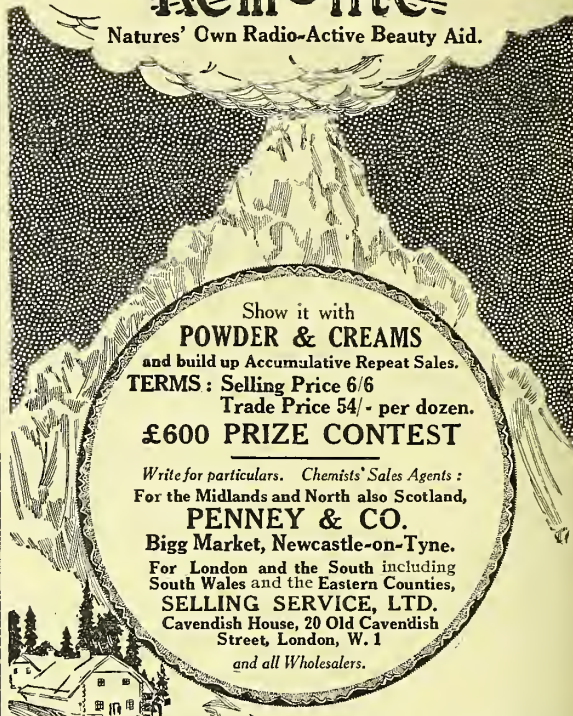
NOTICE.—THE GENUINE A. S. LLOYD'S EUXESIS bears a label printed in BLACK only on a Yellow ground, with our Trade Mark at the bottom, as illustration.

Proprietors: R. HOVENDEN & SONS, LTD.  
LONDON: 29-33 Berners Street, W.1; and 89-95 City Road, E.C.1

## BEAUTY IN A CRATER

**Kemolite**

Natures' Own Radio-Active Beauty Aid.



Show it with  
**POWDER & CREAMS**  
and build up Accumulative Repeat Sales.  
TERMS: Selling Price 6/6  
Trade Price 54/- per dozen.  
**£600 PRIZE CONTEST**

Write for particulars. Chemists' Sales Agents:  
For the Midlands and North also Scotland,  
**PENNEY & CO.**  
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For London and the South including  
South Wales and the Eastern Counties,  
**SELLING SERVICE, LTD.**  
Cavendish House, 20 Old Cavendish  
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and all Wholesalers.

## FIRST AID COLD CREAM

How is your stock? Be ready for demand.

A satisfied customer increases your turnover.

ORDER NOW. IN TINS OR IN BULK.

**Barnetts Perfumery Ltd.** 126-128 BRISTOL ST.,  
BIRMINGHAM.

## The Evan Williams

ALWAYS IN GREAT DEMAND.  
PRICE LIST ON APPLICATION.

The EVAN-WILLIAMS Co., Ltd., 18 Ogle Street, W.1.

**ORIGINAL SHAMPOO**

## "SAMBOY" HAIR TONIC

is made from the purest materials which combined, provide a genuine tonic, unrivalled in its beneficial effect upon the hair and scalp. It is called "a wonderful grower," and may be used by young and old without harm; is especially good in relieving irritation, and cleansing the scalp. It preserves the colour of the hair.

To be obtained from maker on sale or return terms,  
but is a ready seller. Everyone likes "Samboy."

**"SAMBOY," 22 STRAND, RYDE, I.W.**



# A. S. LLOYD'S EUXESIS.

**For Shaving without Soap, Water, or Brush.**

## CAUTION.

The Labels on GENUINE EUXESIS bear two signatures—  
A. S. Lloyd in Black Ink, and that of his Widow,  
Aimée Lloyd, in RED. Refuse any other.

**Sole Manufacturers and  
Proprietors:**

**AIMÉE LLOYD & CO.**  
**23 PANTON STREET (formerly named Spur Street),**  
**HAYMARKET, LONDON, S.W.**

*N.B.—When ordering from Wholesale Houses write LLOYD'S EUXESIS (WIDOW'S).*

## Thousands have proved that "Nuctone" does restore Grey Hair

THE fame of "Nuctone" is spreading every day. People who are afraid of dyes are using "Nuctone" with gratifying results. "Nuctone" restores to the cells of the grey hair the pigments which Nature has ceased to supply and makes them susceptible to the colour-restoring effect of light and air. "Nuctone" is not a dye. It contains neither sulphur nor lead. It improves the growth of the hair while it restores the colour. It is an absolutely harmless and pleasant preparation to use. Stock "Nuctone" and you will sell "Nuctone." It does everything that is claimed for it. It acts slowly but it acts surely, and if you recommend it to your customers they will be grateful to you.

*Showcards and attractive literature  
for distribution gladly sent on  
request. Retail Price 6/6 per bottle.  
Wholesale Price 52/- per dozen.*

WHOLESALE DISTRIBUTORS—  
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4-5 Ludgate Square, London, E.C.4  
Manufactured by Stewart, Goodall &  
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**Nuctone**  
*for* **GREY HAIR**

# DEARBORN (1923) LTD.

37 Gray's Inn Road,  
LONDON, W.C.1.

## Toilet Specialties.

	Price per doz. to Retailer	Selling Price P.A.T.A.
<b>PILENTA SOAP</b> ...	10/-	1/-
A complexion soap.		
<b>PROLACTUM</b> ...	10/-	1/-
For the lips.		
<b>PARSIDIUM JELLY</b> ...	10/-	1/-
For wrinkles.		
<b>ALLACITE OF ORANGE</b>		
<b>BLOSSOM</b> ...	22/6	2/6
A dressing cream.		
<b>BORANIUM</b> ...	22/6	2/6
A hair tonic.		
<b>CLEMINITE</b> ...	22/6	2/6
For a face lotion.		
<b>COLLIANDUM</b> ...	22/6	2/6
For a face tint.		
<b>PERGOL</b> ...	22/6	2/6
A deodorant.		
<b>TEKKO PASTE</b> ...	22/6	2/6
Camphor cream.		
<b>STALLAX</b> ...	22/6	2/6
For a shampoo.		
<b>JETTALINE</b> ...	31/6	3/6
For clearing the skin.		
<b>PHEMINOL</b> ...	36/-	4/-
A depilatory.		
<b>MENNALINE</b> ...	36/-	4/-
For the eyelashes.		
<b>MERCOLIZED WAX</b> ...	31/6	3/6
A face cream.		
<b>STYMOL</b> ...	36/-	4/-
For oily complexions and blackheads.		
<b>SILMERINE</b> ...	22/6	2/6
Hair-curling fluid.		
<b>BARSYDE</b> ...	22/6	2/6
Dandruff eradicator.		
<b>TAMMALITE</b> ...	22/6	2/6
For grey and faded hair.		
<b>LIQUID PERGOL</b> ...	31/6	3/6
To check excessive perspiration locally.		
<b>BICROLIUM</b> ...	22/6	2/6
For whitening the hands.		
<b>HARAPOSA</b> ...	22/6	2/6
Nut oil shampoo.		
<b>COCONOIDS</b> ...	31/6	3/6
For figure development.		

### The Products of

Messrs. PARKER, BELMONT & CO.

**CLYNOL BERRIES** { 36/- 4/-  
For obesity. { 58/6 6/6

**SOFT PALERIUM** ... 45/- 5/-  
For wrinkles.

**LIQUID NAIL POLISH** ... 10/- 1/-  
Brilliant and lasting.

Stocked by ALL Wholesale Houses.

### COLONIAL DEPOTS AND AGENCIES.

*Australia:* ALL WHOLESALERS, & DEARBORN (Australia), Ltd., Grace House, Clarence Street, Sydney.  
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*India:* FRAMJEE & SON, Bombay  
SMITH, STANISTREET & CO., Calcutta.  
*New Zealand:* SHARLAND & CO., Auckland & Wellington.  
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## Invest in these Free Display Cards

You make our advertising doubly profitable to yourself when you have Forhan's For the Gums show cards in your windows.

Advertising creates the demand; window cards direct that demand to your shop.

They remind your public of the dangers of Pyorrhea; of their need for protection; of how simply that protection may be obtained by the use of this pleasant, cleansing dentifrice.

A supply of attractive coloured Forhan's For the Gums show cards is available for your use. We want you to have your share. Write for them to-day.

THOS. CHRISTY & CO.  
4-12 Old Swan Lane, London, E.C.4.

# Forhan's

## FOR THE GUMS



# SUPERFLORO

Regd. Trade Mark.

Only firm selling in bulk all the well-known and exclusive high-class perfumes, including—

**Chypre, Lorigan, Amber, etc.**

**TRIPLE EXTRACT** guaranteed manufactured from pure alcohol and natural flower essences, at prices below those imported from France.

**Natural Essences & Essential Oils** for all Toilet Preparations.

**NO SYNTHETIC.**

For quotations and samples apply to Sole Concessionnaires of

**BERENGER FILS**  
PARIS & GRASSE (Established 1810)

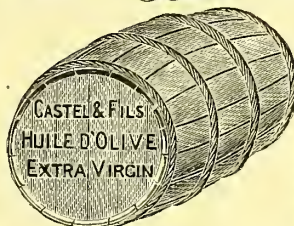
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Genuine Nice



OLIVE OIL



**CASTEL'S**

Genuine Nice

**OLIVE OIL**

In buying Castel's Olive Oil, you buy best Nice Oil only—guaranteed fully by the refiners, a firm with a big reputation, established in Nice for 122 years. There is no Oil better—few as good.



Write to-day for New Season's Prices.

*Rayner & Co. Ltd.*

Stocks in London, Liverpool and Glasgow.

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Sole Agents for *Gt. Britain and Colonies*  
FOR

**FRIES & BRO. NEW YORK**

The World-Renowned Makers of  
**FIRST QUALITY ESSENCES.**

PEACH  
APRICOT  
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&c.

Stocks in London. Ask for Quotations & Samples.

**A. CONNELL & CO.,**  
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Phone: AVENUE 1945. Telegrams: "NITROZONE, LONDON."

## LINE THAT SHOW GOOD PROFITS



**Taylor's**  
**CIMOLITE PREPARATIONS**

50 YEARS' REPUTATION.

Used in all Royal Nurseries and by the Nobility.

### CIMOLITE TOILET POWDER.

Boxes, 1/13 (per doz. 9/6)  
Tins, 3/-, 5/6, 11/- (per doz. 27/-, 49/3, 96/-)  
Bottles, 3/3, 6/6 (per doz. 30/-, 55/6)

### CIMOLITE TOILET CREAM.

Collapsible tubes, 1/3 (per doz. 11/6)

### CIMOLITE SOAP.

Per tablet, 8d.; per box 2/- (per doz. 3 tab. boxes, 20/-)

### CIMOLITE FACE POWDER.

Boxes, 1/13 (per doz. 9/6)  
Tins, 3/- (per doz. 27/-)  
Bottles, 3/3 (per doz. 30/-)

### CIMOLITE SOAP (Violet-Scented)

Per tablet, 8d.; per box, 2/- (per doz. 3-tab. boxes, 20/-)

### CIMOLITE SHAVING SOAP.

Sticks, 1/3 (per doz., 11/6)

SHOWCARDS and Counter Bills on application.

NOW  
ON  
THE  
P.A.T.A.



Cimolite Preparations are stocked by all wholesale houses.

ATTRACTIVE SHOW CARD obtainable from all wholesalers or direct.

PREPARED ONLY BY

**JOHN TAYLOR, Manufacturing Chemist**  
30 BAKER STREET, PORTMAN SQ., LONDON, W.1



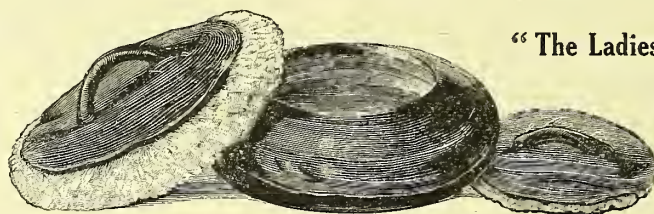
# BEAVERPUF SERIES

stand alone in the Powder Puff World. One of these puffs in your window means more to you than the space it occupies.

## Model L.P.10

Powder and  
Rouge.

Price - 6/6



"The Ladies' Natty Friend."

Made to please  
and  
to do its work.

**Largest sale of any proprietary Powder Puff in the World.**

Stocked by all who study their customers.

Sells at sight.

No special displays needed.

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33 $\frac{10}{3}$ % clear profit.

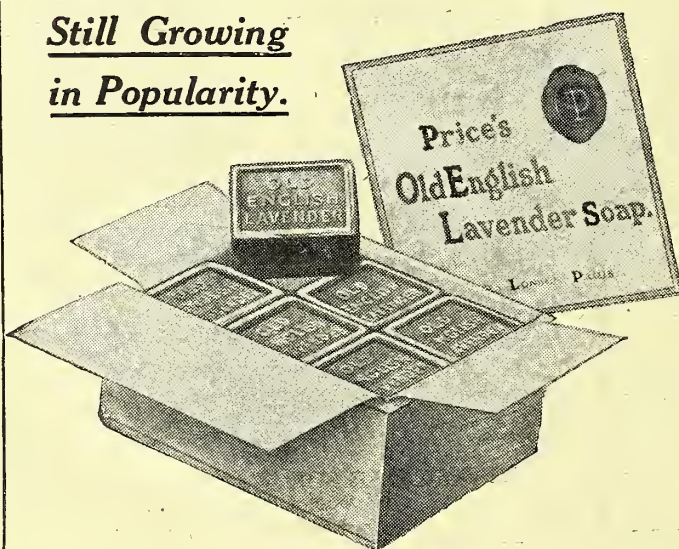
*Sole Concessionnaires for Great Britain and Ireland :*

**BEAVERPUF, Ltd., Priest Bridge, London, S.W.14**

Note New Telephone Number - - PUTNEY 166.

## PRICE'S OLD ENGLISH LAVENDER SOAP

Still Growing  
in Popularity.



This exceedingly popular Toilet Soap is put up in the three following sizes :—

**VISITORS** in 12-cake boxes 14/9 per gross.

**ORIGINAL TOILET SIZE**

In 6-cake boxes 41/3 per gross.

In 12-cake boxes 39/9 per gross.

**BATH SIZE** 64/- per gross in 6-cake boxes.

All the above are packed in the neat, familiar wooden boxes.

N.B. We have specially reserved for Chemists an uncoloured Old English Lavender Soap, Toilet size, at the same prices as above indicated.

Terms and samples on application.

**PRICE'S, BATTERSEA**  
**LONDON, S.W.11.**



*We are Exhibiting*

*Peldo*  
(Patent applied for)

*at the*

## IDEAL HOME EXHIBITION

and are receiving numerous enquiries  
as to where it can be obtained?

We reply "FROM ALL CHEMISTS."

IF YOU DO NOT ALREADY STOCK  
"PELDO," IT CAN BE OBTAINED  
FROM ALL THE LEADING PATENT  
HOUSES, OR DIRECT FROM US.

RETAIL PRICE  
(P.A.T.A.) **1/6**

WHOLESALE  
PRICE **13/6** DOZ.

Showcards and Window Display Material supplied.

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*Remember "Peldo" business is all new business*

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*Sole Proprietors and Manufacturers :*

**C. R. HARKER, STAGG & MORGAN, LTD.**

DEVON WHARF AND BELL WHARF,

**EMMOTT STREET, MILE END, LONDON, E.1.**



**There's only  
one day**

*in the week—*

You can sell Sorbo Sponges every day of the week except Sunday—and sell them at a big profit!

Practically everyone in your district is a potential customer for this popular favourite among sponges—**SORBO**—the sponge which soap improves.

The eager recommendations given by delighted users, have "told the world" about Sorbo Sponges. You don't have to sell them—just show them in your window and they sell themselves.

*There's a quick and generous profit—33½%—for you in every Sorbo Sponge. ORDER TO-DAY.*

**SorboSponge**

THE MOST ABSORBENT RUBBER SPONGE

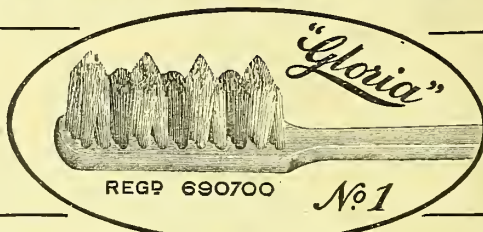
Retail Prices : No. 1, 1/- ; No. 2, 1/9 ; No. 3, 2/6  
No. 4, 3/9. Bath Sizes : No. 4R 5/- ; No. 5, 7/6

**Sorbo Rubber-Sponge Products, Ltd.**

Sorbo Works, Woking, Surrey:

London Office " " " 24 Wallbrook, E.C.4.

**BIDWELLS'**



**NEW DESIGN**

*Advantages :*

Used up and down on the teeth it cleans in between them, and if pressed down hard, the bristle will not crush. Short knots in extra hard white, yellow, or black bristle. Long knots always white. Ventilating holes in back, hole in handle for hanging up.

Sterilised and sealed in transparent carton.

WHOLESALE, 17/- doz., Hard 19/- RETAIL, 2/3 ea., Hard 2/6 ea.

**CASTLE MILLS, AXMINSTER  
DEVON**



**MUD versus RHEUMATISM.**

All sufferers from RHEUMATISM, Sciatica, Gout, Arthritis, Neuritis, Lumbago, etc., should send immediately for full particulars of

**PISTANY RADIO-MUD FOR HOME TREATMENT.**

Remarkable results have been achieved and Doctors everywhere are recommending it. "The Lancet" writes—"We have made a trial of the mud on a bad case of FIBROSITIS of the elbow which was proving resistant to treatment by other means, and the result certainly was encouraging."

HANSENS LABORATORY Ltd., 61 St. Thomas's St., London, S.E.1.  
Information Bureau for the Pistany (Postyol) Wells, Czechoslovakia.

**SHAVING BRUSHES**

BEST LONDON MADE.

FROM 7/6 TO 360/- PER DOZ.

**W. H. HAWTIN, Manufacturer, 100 Euston Road, N.W.**

Wholesale and Export Only. Tel.: Museum 7975.

**LOOK** at the BIG PROFITS which YOU can derive by stocking the renowned  
**"GALJADO" TOILET PREPARATIONS**

*One of our many best sellers :—*

**"GALJADO" HAIR COLOUR RESTORER**

which is not a dye, for grey or faded hair.

Medium size 12/- per dozen. - S.P. 2/- per bottle.  
Large " 22/- " " - S.P. 3/6 " "

*Obtainable of all Wholesalers or direct.  
Current price lists sent free on application to*

**THE GALJADO PERFUMERY CO. LTD.**  
9 GOSWELL ROAD, LONDON, E.C.1.



# Don't waste your time

In trying to sell goods without merit. A pretty label—a smart bottle—may attract, but they positively **cannot build business**. You know it and so do we. But **you** know and **we** know that a specific which is **GUARANTEED** to bring relief, *failing which money is returned*, is bound to sell. Such a guarantee we give with

## DR. PAGE BARKER'S SCURF & DANDRUFF LOTION

because we know positively that it is the one and only *sure and certain* antidote for Scurf and Dandruff—one which **NEVER FAILS**, no matter how bad the case may be or of how long standing. It will earn you the gratitude and esteem of every one to whom you recommend it.

WITH FREE BONUS OF 3 BOTTLES.

You Pay out of Your Till	You Put into Your Till	YOUR PROFIT IS
3 doz. at 18/- £2 14 0	36 Bots. at 2/6 £4 10 0 3 Bonus at 2/6 7 6 (free)	44% Selling - - £4 17 6 Cost - - £2 14 0
<b>£2 14 0</b>	<b>£4 17 6</b>	<b>£2 3 6</b>

Get a little lot to-day—show the excellent sales-inducing cards and get your share of this good business which is waiting for you every day, also the profit of

*Remember our guarantee is behind every bottle.*

THE PAGE BARKER CO., 252B, 252C Gray's Inn Road, W.

Sole Distributors:

THOS. CHRISTY & CO., 4-12 Old Swan Lane, E.C.4.

44%



18/-  
PER DOZ.

2/6  
RETAIL.

# Hypatia Soap

THREE SIZES

P.A.T.A.  
PROTECTED  
PRICES

Bath .. ..	9d.
Toilet .. ..	5d.
Visitors .. ..	2½d.

THE LAST WORD IN PERFUMED SOAP.  
EACH TABLET WRAPPED IN CELLOPHANE.

Write for Samples to

**R. WHEEN & SONS, LTD.**  
Toilet Soap Makers. LONDON, S.E.8.

# CHLOROPHYLL

HIGHEST QUALITY.

ABSOLUTELY PURE.

UNIFORM DELIVERIES.

CHLOROPHYLL C.	Oil soluble. Blue Shade.
CHLOROPHYLL CC.	Oil soluble. Yellow Shade.
CHLOROPHYLL S.	Water and spirit soluble.
CHLOROPHYLL P.	Soluble in 70% to 100% alcohol.

**THE SANDOZ CHEMICAL CO. LTD., BRADFORD.**

(2)



Telegraphic Address :  
"Cresswell, Westcent, London."

WORLD'S HEADQUARTERS FOR

Telephone :  
No. 1432 Holborn.

# SPONGES

INTERNATIONAL SPONGE IMPORTERS, LIMITED.

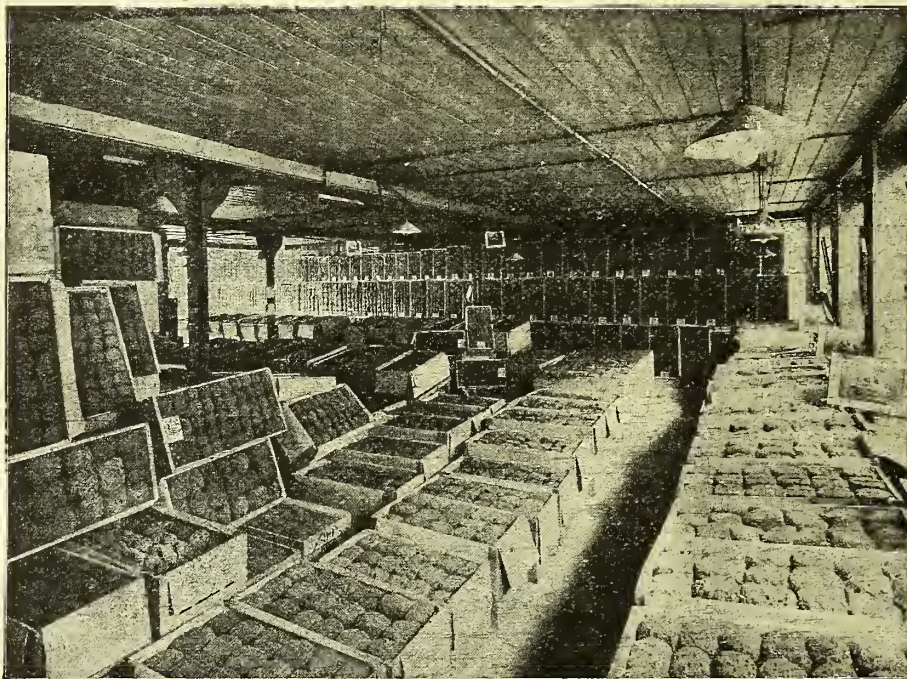
## CRESSWELL BROTHERS BRANCH

*Sponge Importers, Exporters and Merchants, and Chamois Leather Dressers,*

18 & 19 RED LION SQUARE, New Warehouses and Steam Bleacheries, LONDON, W.C.  
45, EAGLE STREET,

**THE LARGEST DIRECT IMPORTERS WITH THE MOST  
EXTENSIVE SPONGE WAREHOUSES IN THE WORLD.**

WE  
OFFER  
THE  
BEST  
VALUE  
AT  
THE  
PRICES  
GIVEN.



BUYERS  
ARE  
INVITED  
TO  
CALL  
AND  
CON-  
VINCE  
THEM-  
SELVES  
OF THIS  
FACT.

View of one of the Floors (3,000 sq. ft.), where we have on show the Largest Stocks of Original Cases of Honeycomb and Turkey Sponges held by any House in the Trade.

The following abridged List will serve as a guide to Buyers when writing.

## UNBLEACHED MEDITERRANEAN SPONGES in Original Cases.

### HONEYCOMB.

Extra Choice.  
The Pick of all the Fisheries.  
Finest Texture and Shape.

Pieces in Case.	Average Price per Piece.
300 Toilet at ...	9d.
250 " " " " " "	1/-
200 " " " " " "	1/6
160 " " " " " "	2/-
140 " " " " " "	2/6
120 " " " " " "	3/-
100 " " " " " "	3/6
90 Medium Bath ...	4/6
80 " " " " " "	5/6
72 " " " " " "	6/6
60 " " " " " "	7/6
45 Large " " " "	8/6
30 " " " " " "	10/6

### HONEYCOMB.

Toilet & Bath,  
Good 2nd Quality

Pieces in Case.	Average Price per Piece.
270 at ...	6d.
180 " " " " " "	9d.
170 " " " " " "	1/-
160 " " " " " "	1/6
140 " " " " " "	2/-
120 " " " " " "	2/6
110 " " " " " "	3/-
90 " " " " " "	3/6
80 " " " " " "	4/-
75 " " " " " "	4/6
70 " " " " " "	5/-
65 " " " " " "	5/6
60 " " " " " "	6/6

### FINE TURKEY SOLIDS.

SELECTED SHAPES.

Pieces in Case.	1st Quality	Average Price per Piece.
Nursery 200 at ...	...	1/-
Toilet 150 " " " "	...	1/6
" 100 " " " "	...	1/9
" 100 " " " "	...	2/-
" 80 " " " "	...	2/6
Bath 50 " " " "	...	3/-
" 36 " " " "	...	4/-
" 24 " " " "	...	5/-

### IMPORTANT NOTICE.

THE CONTENTS OF THE ABOVE CASES WILL BE PRESS-PACKED AND SENT POST FREE TO COLONIAL AND FOREIGN BUYERS WITHIN THE RADIUS OF PARCELS POST

### LOOSE GOODS DEPARTMENT.

SPONGES IN SMALL PACKAGES. Fine Turkey. Fine Egyptian and Honeycomb. In 1st, 2nd and 3rd Qualities Bleached or unbleached (state which in ordering). On strings of 1 dozen pieces, or loose in bags. At per doz. : 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s., 30s., 36s., 42s., 48s., 54s., 60s., 66s., 72s. Bleached Cuban. At per String or Dozen. Wool, Grass, Yellow and Fine. 1s., 2s., 3s., 4s., 6s., 9s., 12s., 15s., 18s., 24s.





2340

## TOOGOOD'S FLORAL BATH CRYSTALS

In Bottles, Fitted Boxwood Top  
Corks, Capped and Ribbioned.

Assorted Odours—Lavender, Verbena, Cologne,  
Oriental Rose and Violet.

8	10	12	16	20 oz.
12/-	13/6	16/6	20/-	24/- doz.
32	40	60	90	130 oz.
36/-	47/6	66/-	90/-	120/- doz.

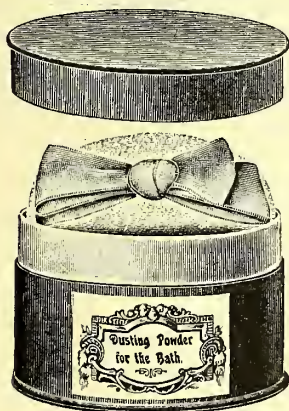
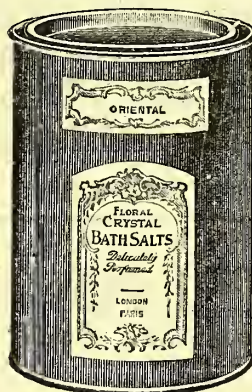
Customer's Name on 3 dozen assorted.

## FLORAL BATH CRYSTALS

Assorted Odours as above in Lever  
Lid Packages Covered Wood Veneer

2	4	7 lb.
26/-	50/-	90/- doz.

Customer's Name on 2 dozen assorted.



## DUSTING POWDER FOR THE BATH.

IN WOOD VENEER BOXES.

5" x 3½"

Complete with Wool Bath Puff.

No. 3688..	..	..	..	39/- doz.
Without Puff	..	..	..	20/- "

**WILLIAM TOOGOOD LTD.**  
77, SOUTHWARK ST  
LONDON, S.E.1.

Telephone:  
HOP 4170  
(2 lines).

Telegrams:  
"TOOGOOD,  
BOROH,  
LONDON."

# Maltine

the DIGESTIVE NUTRIENT

TRADE MARK

*Over Forty Years' Reputation*

MALTINE (Trade Mark)  
MALTINE with COD LIVER OIL  
MALTINE with C.L.O. and HYPO.  
MALTINE with CASCARA  
MALTINE with CREOSOTE

Etc.

MALTOLINE (Trade Mark)  
MALTINE with HYPO.  
MALTINE with IRON  
MALTINE with PARAFFIN  
MALTO-YERBINE (Trade Mark)

Etc.

MALTINE MANFG. CO., 9, HOLBORN VIADUCT, LONDON, E.C.1

# Maltoline

TRADE MARK

## Vinum Xericum

BUTTS.	HOGSHEADS.	QR. CASKS.
108 galls.	54 galls.	27 galls.
Grade A. STRENGTH 16.5°—17° Abs. Alc.		
Grade B.                      18°—19° Abs. Alc.		

### James V. Oldham

19 St. Dunstan's Hill, London, E.C.3.

Telephone : Avenue 3013.



SELF-FIXING  
**HERMETIC**  
WASHABLE  
**BOTTLE CAPS**  
ARE  
—ELEGANT—  
—EFFICIENT—  
—STRONGEST—  
—CHEAPEST—  
and BEST.  
**The VISCOSE**  
Development Co., Ltd.  
BROMLEY :: KENT

**SEMREH** SELF-FIXING  
BOTTLE CAPS

## VITAMINAX BRAND

# PURE LOFOTEN COD LIVER OIL

*Manufactured by Johan Didrichsen, Kristiania, Norway.*

ESTABLISHED 1890.

*Proprietor of Elle Fabriker.*

All possible care has been shown from the very first in the production of this Oil in order to maintain the highest degree of **Vitamines**.

*Wholesale only.*

*Tel. Add. : "Johandi, Kristiania."*



## IMPORTANT REDUCTION IN TERMS.

# CACHETS FAIVRE

(OXYQUINOTHEINE)

Orders received on and after  
**March 20th** will be executed  
at **22/-** per doz. nett stamped.

Prices subject to change without notice.

*Special Terms for quantities*

*Carriage Paid for any quantity.*

**WILCOX, JOZEAU & CO.**

15 Great St. Andrew Street,  
LONDON, W.C.2.

*Sole Agents for Great Britain.*

THE WORLD'S BEST

# HONEY

(New Zealand)

**"IMPERIAL BEE"**

The FINEST QUALITY THAT BEES PRODUCE

**BUILD your HONEY TRADE on a sure FOUNDATION**  
**QUALITY means REPEAT ORDERS.**

Cases	48×1's ..	Screw-top Glass ..	12/9	per doz.
"	48×1½'s ..	" ..	7/6	"
"	48×1's ..	Monopots .....	11/3	"
"	48×1½'s ..	" .....	6/-	"
"	30×1's ..	Glass Tumblers ..	12/9	"
"	18×1¼'s ..	Glass Toby Jugs ..	17/9	"

CARRIAGE PAID TO ALL PARTS OF U.K.

*Special quotations to the Wholesale Trade and large buyers.*

*Quotations for Bulk (cases of 2/60 lb. tins) of all grades on application.*

**New Zealand Honey Producers' Association, Ltd.**

*Sole European Agents:*

**A. J. MILLS & CO., Ltd.**

*Produce and Canned Goods Department*

14, TOOLEY STREET LONDON, S.E.1.

*And at*

Birmingham, Bristol, Cardiff, Glasgow, Leeds, Leicester,  
Liverpool, Manchester, Newcastle-on-Tyne

# "Specialty" Emulsions



*There's a ready and  
extensive Sale for these  
elegant preparations*

Being one of the largest importers of  
Medicinal Oils, we can supply highest  
quality Emulsions at competitive prices.  
Special reservable labels are available. Send  
a postcard to-day for samples and prices.

"SPECIALTY"

## Petroleum Emulsion

Containing the finest medicinal petroleum, agree-  
ably flavoured. Supplied with or without  
hypophosphites in 33% and 50% strengths.  
Packed in special wide-mouth, oval-shape bottles  
in all sizes, with white viscose caps.

"SPECIALTY"

## Pectoral Petroleum Compound.

This preparation represents a decided advance  
in the treatment of obstinate coughs, etc., chiefly  
owing to its petroleum basis. It is therapeutically  
active without any risk of stomacal irritation,  
and represents the last word in Pharmaceutical  
skill to obtain a perfect product. Packed only  
in 4 oz. and 8 oz., special wide-mouth, oval-shape  
bottles, with white viscose caps.

"SPECIALTY"

## Cod-liver Oil Emulsion

Carefully prepared with the finest quality  
Norwegian Cod-liver Oil, with or without  
Hypophosphites, in 25% and 50% strengths,  
Packed in special wide-mouth, oval-shape bottles  
in all sizes with white viscose caps.

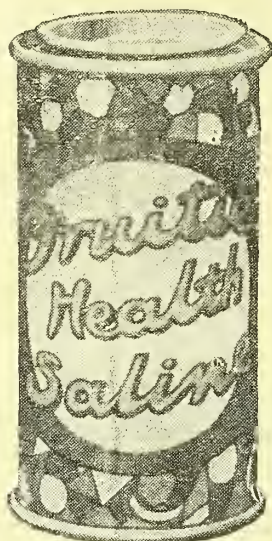
*Above also supplied in Bulk.*

**Specialty Dept.**  
**Anglo-American Oil Co. Ltd.**

Albert Street,  
Camden Town, London, N.W. 1.



# A NEW EFFERVESCENT



## "FRUITIE" HEALTH SALINE

*A Splendid Seller.*

SEND A POSTCARD FOR A SAMPLE  
TIN AND JUDGE IT FOR YOURSELF.

4-oz. size .. Retails 9d.; Wholesale 6/6 per doz.  
6/3 in 1 gross lots.

8-oz. size .. Retails 1/4; Wholesale 11/6 per doz.  
11/- in 1 gross lots.

1 gross quantities sent Carriage Paid.

**Chrystoid (CHEMISTS) Ltd.,** MANUFACTURING CHEMISTS,  
Bootle, Liverpool.

Telegrams: "Bluechrys, Liverpool."

Phone: Bootle 126.

### If you want good value in FOREIGN & BRITISH WINES

ALSO

"CROWN BRAND" LIEBIG'S MEAT  
AND MALT WINE

"WIN-FERRO" TONIC BLOOD WINE

B.P. ORANGE QUININE WINE

GINGER, B.P. ORANGE, RAISIN

and Other Wines

*Write to*

**LAMB & WATT, Ltd.**

48 ST. ANNE ST., LIVERPOOL

FOR PRICE LIST.

*Established 1847.*

Highest Awards at all International Exhibitions  
where shown.

DR. HALE'S  
**VIN-SANGUIS**  
WINE FOR THE BLOOD

### Fountain of Health

If you have a  
Wine License we  
will pay the fee.

If not, get one,  
we will pay.

*Send for any*

You agree to display  
"Vin Sanguis" always.  
You give us an  
agreed initial order.  
You always keep stock

*further particulars*



PROPRIETORS OF  
DR. HALE'S VIN-SANGUIS

**Transcontinental Agencies Ltd.**

14, Southampton St. London, W.C.2

MADE WITH OLD DOURO PORT



## NEW TERMS

# 80%

profit on cost.

*Burgoynes*  
*Universal*  
*Fruit Saline*

per **2/3** bottle

P.A.T.A.



A liberal supply of advertising  
matter is sent with each order.

May we have your enquiry before  
placing your requirements for the season?

BURGOYNE BURBIDGES & CO. LTD.

EAST HAM, LONDON, E.6.

This is the style of advertisement that our "Local Advertising" Department is designing for our Chemist friends

### Defenceless!

You are unable to protect yourself when you are in bed, sick and ill. But if you send your prescriptions to me to dispense you will be protected against stale, weak or impure drugs being used in the make-up of your medicine. Only fresh and pure drugs are kept in stock.

**Andrew Crewdson**  
M.P.S.

Dispensing Chemist,

1 Market Street,  
YOUR TOWN.

Under certain conditions we are ready, not only to prepare and "lay-out" your advertisement, complete for the printer, but also to share in the cost of the advertising space. CAN WE HELP YOU?

Write to

**Glaxo,**

"LOCAL ADVERTISING" DEPT.  
56 OSNABURGH ST., LONDON  
N.W.1.

## GOOD LINES

For SPRING  
and SUMMER  
SALE . . .

IF YOU ARE INTERESTED  
APPLY FOR LIST

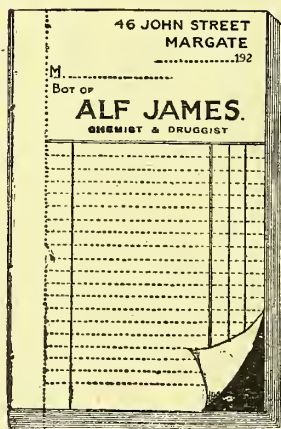
to

**NEWBALL & MASON**  
NOTTINGHAM

*You never know*

what may happen by not keeping a duplicate copy of *all* your correspondence. It's so easy to do this with the 'Charterhouse' Duplicate Order or Memo Book which is made only with 100 printed tear-outs 8 by 4½, and 100 plain duplicates. 1st leaf, good white bank paper, printed any ordinary heading, and perforated. 2nd leaf, white paper, plain and fast. Wired binding, stout Kraft flush paper covers; one sheet of carbon per book.

**The "Charterhouse"**  
Duplicate Order or Memo Book



Saves time, money and trouble. Each sheet is numbered so as to give an accurate record.

#### Prices per Book:

12 books...	1/9
24 " " "	1/8
36 " " "	1/7
48 " " "	1/6
72 " " "	1/5
144 " " "	1/4

Numbering in duplicate, 3d. extra per book.

These books can also be had with Cash Lines at same prices.

**J.C. KING & CO.**

42-60 Goswell Rd  
LONDON, E.C.1.



## **Lorimer-Marshall, Ltd., for PACKED GOODS**

Granular Effervescent Citrate of Magnesia

Seidlitz Powders (Plain & Lemon Flavoured)

Health Salt Salines

Compound Syrup of Hypophosphites

Blood Purifier Tonic Elixir

Children's Tonic

*AT KEENLY COMPETITIVE PRICES.*

---

---

**LORIMER-MARSHALL, LTD., 12 Tower Hill, London, E.C. 3**

Works Telephone : New X 2119.

Telegrams : "Lorimarsco, Bilgate, London."

**Gelatines**  
Fine Leaf Gelatine, Pure Calf.  
"Albion" Brand (In 1-lb. Packets,  
112 × 1-lb. to Case)  
*Made in England.*  
FINE CRYSTAL GELATINES.  
PURE SKIN GELATINES.  
POWDERED GELATINES.

*Samples on Application.*

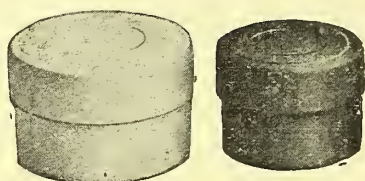
**OURY, MILLAR & CO. 9 MINCING LANE,  
LONDON, E.C.3.**

Telegrams : "Olmenth London."

Telephone : Avenue 4978.

**"Corruganza" SEAMLESS  
OINTMENT BOXES**  
and  
**PILL BOXES**

*Have replaced the old "Willow" boxes—  
Greaseproof—the bottoms cannot fall out.*



These boxes are made on the ONE-PIECE principle and cannot come to pieces whilst in use like the old-fashioned ring-and-disc style boxes or German "Willow" boxes.

**THEY HOLD THE GOODS**

For ointments, pills and powders they are unrivalled. If you do not now stock them, please write for samples and prices.

**Stick to the ONE-PIECE principle**

*Wholesale or Export only from*

**HUGH STEVENSON & SONS  
LIMITED,**

**Summerstown Works, LONDON, S.W. 17**

*And at Manchester, Birmingham, Litch, Perth and Glasgow.*

*Kindly mention this Journal when replying to the advertisement.*



**SUPPORT HOME  
INDUSTRIES.**

**SPECIFY ROBINSON'S**

**CHEPETTE  
BOXES**

when ordering from your  
Wholesale House.

✱

Both quality and appearance are superior to the poor grade Willow Boxes of German and Austrian make.

✱

Deliveries are prompt and reliable.

✱

Prices have been reduced and the good quality maintained.

**ROBINSON & SONS, LTD.**

**CARDBOARD BOX MANUFACTURERS,**

**& CHESTERFIELD.**





**HUILE  
D'OLIVE**  
VIERGE  
DE PROVENCE

**C. W. JOHNSON & CO.**  
Woburn Lodge  
Upper Woburn Place, W.C.1.

Direct Importers. Packed and Bulk.  
Prices and Samples on application.

Telephone - - - - - Museum 5774

# WHITE OILS


WHITE and Half-White Oils for use in manufacture of Brilliantine, Pomades, Toilet Preparations, etc. These oils can also be supplied in any shade of Green, Yellow, Golden or Red.  
Prices on request.

**STERNS LTD.**  
80 Royal London House,  
Finsbury Square,  
London, E.C. 2.

# SUTTON'S

**CLOUDY AMMONIA**

To-day, as ever, the extra strength of  
**SUTTON'S  
CLOUDY AMMONIA**  
makes it the most efficient and the most economical for all purposes.



The enviable reputation of G. F. Sutton, Sons and Co. ensures that in handing out a "Sutton" product the retailer is giving his customer the very finest quality. Doesn't that mean "repeat" orders every time for YOU?

Send for particulars of FREE SPRING OFFER to  
**G. F. SUTTON, SONS & CO.**  
Osborne Works, Brandon Rd.  
King's Cross, LONDON, N.7.

"A good name is more than riches"

# Pure Castor Oils

PHARMACEUTICAL  
TECHNICAL

Enquiries solicited for all Grades of Oil.

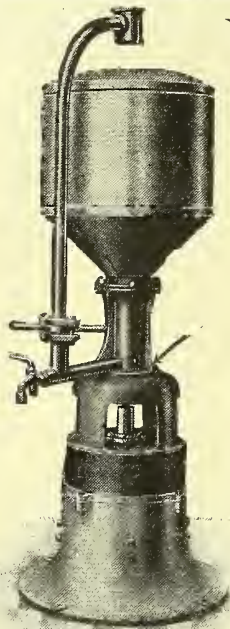
**Langley-Smith & Co.**  
14/20 St. Mary Axe, London, E.C. 3.

Telegrams: "Tallawdom London,"  
Telephone: - Avenue 3820.

(3)



## THE "BOOTHROYD" EMULSIFIER



MOTOR DRIVEN.

## MIXING & EMULSIFYING— —IN ONE PROCESS!

THE "BOOTHROYD" EMULSIFIER, the prototype of its class, when first placed on the market some years ago revolutionised the then known processes of emulsifying, eliminating the tedious stages of the work, carrying out the mixing and emulsifying in one process and, at the same time, producing an emulsion of almost indefinite keeping qualities.

The 1923 Model embodies all the features which have made the machine famous, and by slight modification of the mechanical design the facilities for cleaning have been improved; it being possible—by removing four bolts only—as indicated—to dismantle the whole of the working parts in less than thirty seconds, and after cleaning they may be replaced as easily and almost as quickly.

The machine is capable of dealing with all kinds of egg, lichen, mucilage and gum emulsions, pastes, creams, juleps etc., the time required for the completion of the process being from twenty minutes to one hour.

It is made in two types—Motor Driven (as illustrated), the motor being contained in the base, and Belt Driven—either being absolutely self-contained and requiring wiring or belting up only. The power consumption is from  $\frac{1}{2}$  to  $\frac{3}{4}$  B.H.P. according to the consistency of the material.

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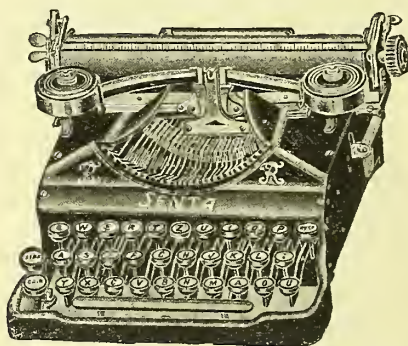
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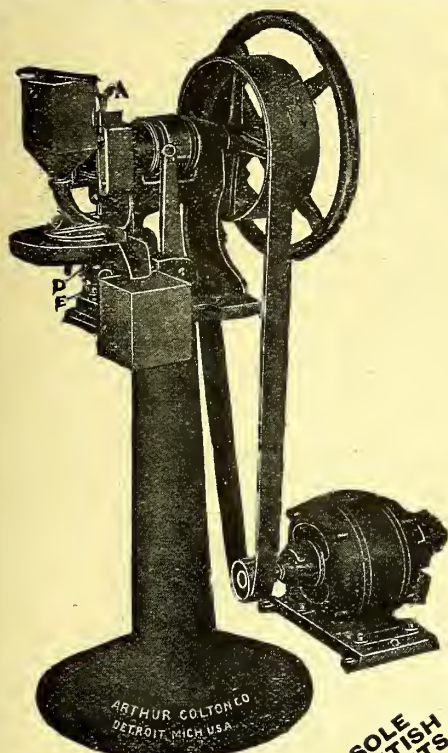


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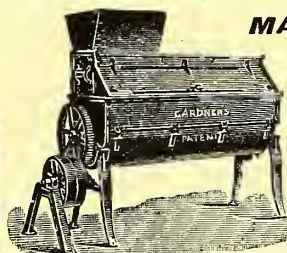
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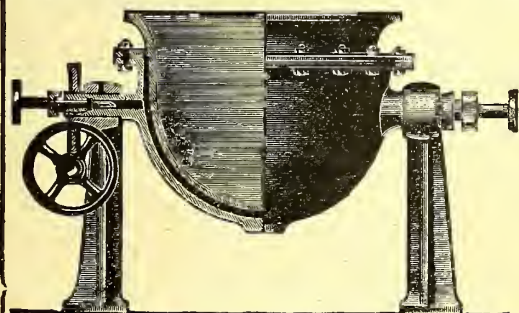
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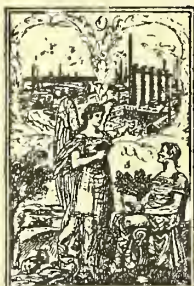
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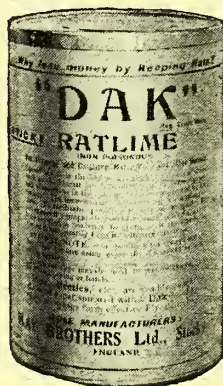
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**WITHOUT LICENCES**

It has been established  
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Chemists may sell  
"Wincarnis" with  
Quinine without a  
licence.

*The "Ideal"*

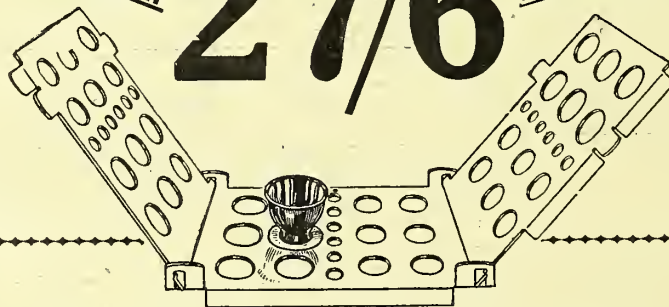
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MODERATE PRICE**

Just the thing for the man with a limited Cachet business, highly  
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our most popular machines and is sent out boxed com-  
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**27/6**

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OF A P/C

THOS. CHRISTY & CO., 4/12 Old Swan Lane, E.C. 4.





## A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

### SUBSCRIPTION RATE

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### C. & D. Stock-taking Sheets

THOSE chemists whose financial year closes at the end of March, and who require to take stock, should note that the C. & D. Stock-taking Sheets halve the labour of taking stock. The items are arranged on ruled paper in the same order as in the C. & D. Retail Price List, which is afterwards employed for pricing out the articles, the amount of each column being then transferred to specially ruled pages at the end of the pad. Hints on stock-taking are given on the inside of the cover. The items in the Stock-taking Sheets cover all drugs, chemicals and galenicals found in chemists' shops, and, being in alphabetical order, are easily found for entering up. By means of the Stock-taking Sheets one person can take stock, but it is better for two assistants to work together, the more experienced calling out the quantity of the drug, etc., and the other entering it in the Stock-taking Sheets. The price of the complete pad of Stock-taking Sheets is 2s. 6d., post free, cash with order.

## English and Welsh News

The Editor would be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

### Contracts

The following tenders have been accepted by the bodies named:—

Bridge Guardians.—Mr. J. Barron, chemist and druggist, Bridge, Canterbury, drugs.

Dartford Guardians.—Corbyn, Stacey & Co., Ltd., drugs, etc.

Eton Guardians.—Griffith & Walden, chemists, Slough, drugs, etc.

### Easter Holidays

We have ascertained that the following wholesale houses will be closed from Thursday evening, March 29, to Tuesday morning, April 3:—

Allen & Hanburys, Ltd., Bethnal Green, E.2. (Small urgent orders can be executed at 7 Vere Street, W.1.)

Berton, Arthur, Ltd., 15 and 17 Worship Street, E.C.2.

British Drug Houses, Ltd., The, 22-30 Graham Street, City Road, N.1.

Burge, Warren & Ridgley, Ltd., 91 and 92 Great Saffron Hill, E.C.1.

Burroughs Wellcome & Co., Snow Hill Buildings, E.C.1.

Christy, Thos., & Co., 4, 10 and 12 Old Swan Lane, E.C.4.

Curling, Geo., Wyman & Co., 56-59 Bunhill Row, E.C.1.

Greeff, R. W., & Co., Ltd., Thames House, Queen Street Place, E.C.4. (Half the staff will be in attendance on March 31.)

Hair, B. W., & Son, Ltd., 104 High Holborn, W.C.1.

Karker, C. R., Stagg & Morgan, Ltd., Devon Wharf, Emmott Street, Mile End, E.1.

Hewlett, C. J., & Son, Ltd., 35-42 Charlotte Street, E.C.2. (Open March 31.)

Howards & Sons, Ltd., Ilford.

Macfarlan, J. F., & Co., 9 and 11 Moor Lane, E.C.2.

Maw, S., Son & Sons, Ltd., 7-12 Aldersgate Street, E.C.1.

May, Roberts & Co., Ltd., 7-13 Clerkenwell Road, E.C.1.

Morson, Thomas, & Son, Ltd., Gray's Inn Road, W.C.1.

Newbery, Francis, & Sons, Ltd., 27 and 28 Charterhouse Square, E.C.1.

Oppenheimer, Son & Co., Ltd., 179 Queen Victoria Street, E.C.4.

Parke, Davis & Co., 50-54 Beak Street, W.1.

Potter & Clarke, Ltd., 60-64 Artillery Lane, E.1. (Open March 31.)

Reuter, R. J., 69 Carter Lane, E.C.4.

Sangers, 258 Euston Road, N.W.1.

"Sanitas" Co., Ltd., The, Locksley Street, E.14.

Smith, T. & H., Ltd., 25 Christopher Street, E.C.2.

Sparks, White & Co., Ltd., Tenter Street, E.1.

Stevenson, H. E., & Co., 122 Great Suffolk Street, S.E.1.

Stevenson & Howell, Ltd., 95a Southwark Street, S.E.1.

Toogood, William, Ltd., 77 Southwark Street, S.E.1.

Tyrer, Thomas, & Co., Ltd., Stratford, E.

Willows, Francis, Butler & Thompson, Ltd., 40 Aldersgate Street, E.C.1. (Open March 31.)

Wood, Vincent, 91 and 93 Newington Causeway, S.E.1.

Wright, Layman & Unney, Ltd., 44-50 Southwark Street, S.E.1.

The offices of THE CHEMIST AND DRUGGIST will be closed from March 29 to April 3.

### Wine Licence Applications

At the adjourned Brewster Sessions, Bury, recently, an application for a wine off-licence, made by Mr. H. Crompton, 162 Bolton Street, was objected to by the police as not required. For the applicant it was stated that rather over 2,000 bottles of wine, three-fourths of which were medicated wines, were sold by him in the course of a year. The licence had been in the same family for three generations, and there had been no complaint, and the business had been conducted properly. Mr. Crompton said that he was a dispenser under the National Insurance scheme. It was his opinion that if his licence was taken away it would interfere with his dispensing work. The Chairman: Are you sending out wine unpaid for?—Yes. When is it paid for?—On the next journey—a month later. The magistrate's clerk said that so long as the person taking the order was a bona-fide traveller, and appropriation took place on the premises, no offence was committed. The Chairman:

C C



Have you ever come across a case of a doctor prescribing medicated wine?—The applicant replied that they often said a bottle of wine would do the patients good. The Chairman: Have you ever known medicated wine prescribed?—Yes, I have. In the prescription?—No, not in the prescription. The licence was refused.

Similar applications at the respective Sessions by Mr. N. Armitage, chemist and druggist, Hipperholme, and on behalf of the drug department of Chopwell Co-operative Society, Ltd., were also refused.

### Birmingham

A Birmingham firm of pharmacists has secured a London staff who attend to fit on, and measure for, surgical appliances and artificial limbs.

Recipes for skin foods and for massage requisites are now being brought to pharmacists for dispensing, culled from the local journals and weekly periodicals.

Mr. W. A. Albright has presented a portrait of Dr. Derrington, of Old Square, Birmingham, printed about 1790 by James Millar, to the Birmingham Museum and Art Gallery.

At Birmingham Assizes, on March 19, Mr. Robert D. Green, an insurance inspector, was awarded £350 damages against Mr. Thomas Cooper, chemist and druggist, High Street, Halesowen, in respect of personal injuries received in a motoring collision.

The Birmingham Eye Hospital proposes to establish a research fund to commemorate its centenary, which will be reached in April of next year. Mr. Ernest Meggeson, chemist and druggist, is the dispenser and radiographer at this institution.

The proposed scheme to improve the waterway from the Bristol Channel to Birmingham was cordially supported at a conference of West of England chambers of commerce at Bath on March 14. Mr. David A. Evans, chemist and druggist, Bath, was among those who approved of the proposal.

Statistics issued by the Ministry of Labour show that for the week ended March 12 the number of persons who were out of work in the West Midlands was 140,066; of these 46,560 were registered in the Birmingham area, where there has been the substantial decline of 1,499, as against a fall of about 600 recorded the previous week.

Mr. and Mrs. Arthur Williams, who were married at St. John's Church, Ladywood, Birmingham, on March 19, 1863, celebrated the sixtieth anniversary of their wedding at their residence, 59 Babington Road, Streatham, London, S.W. Mr. Williams is the senior partner of a firm of drysalts, etc., in Broad Street, Birmingham, which he established in January 1864.

### Hull

Local chemists are still exhibiting the advertisement issued by the Retail Pharmacists' Union.

Chemists in Hull are welcoming the 5s. 6d. reduction in rates, which has been promised this week.

At the "open days" exhibition of the Hull Technical College, which was held on March 16 and 17, there was a display of drugs and fine chemicals by The British Drug Houses, Ltd., intended to disprove the German assumption that they alone are experts in this department of manufacture. Lofthouse & Saltmer, Ltd., manufacturing chemists, Hull, had a display of purely pharmaceutical goods, showing the evolution of pharmaceutical products from the plants in an interesting manner.

Every month a go-ahead pharmacy runs some "stunt" or other. First it is "coupon week," and then it is "tooth-brush week," and so the programme continues. This week's has proved the greatest attraction of all. It is called "competition week"; the pharmacy window is well set out, and passers-by are invited to find in the window as many articles as they can which are not sold in the shop. Hidden away in the window are small pieces of coal, packets of chocolates, cigarettes, etc. There are hundreds of entries, and the crowds round the shop window have at times become so great that the police have had to move them away. The other day, one small boy brought a box to enable him to see over the heads of the adults who were crowding round the shop.

### Leicester

Displays of waterglass are in evidence at the majority of pharmacies in the neighbourhood.

The fee for the Qualifying examination course at Leicester City Technical School has been reduced to £21. At the July, 1922, examination the record of passes from the school was 28.5 per cent., compared with 19.4 per cent. for the whole country. Facilities are granted to part-time students.

### Liverpool

Mr. Richard Baxter Lee, chemist and druggist, 13 Sefton Street, Litherland, is standing for re-election on the Litherland Urban District Council, on which he has served since 1901.

The splendid weather which set in at the week-end brought a great influx of visitors for the Grand National, and pharmacists have shared in the extra retail trade. "Take one of these flasks to Aintree," is a frequent window notice.

Appreciation is being expressed of the *C. & D.* stock-taking sheets (*C. & D.*, March 17, p. 357), and the draft of the pamphlet "The Business of a Chemist and Druggist" (*C. & D.*, March 17, p. 368), which promises to be a popular educational manual.

A complimentary dinner to Mr. and Mrs. W. J. Williams, before they leave Liverpool for London, is being given by pharmacists and their lady friends, at the Exchange Station Hotel, on April 5. The response from Merseyside and Southport is representative of the wholesale and retail trade, and Mr. Herbert J. Evans has promised to attend on behalf of Evans Sons Leacher & Webb, Ltd., with whom Mr. Williams was for many years, and also Mr. Righton, Southport.

"Suicide during temporary insanity" was the verdict recorded by the deputy-coroner at Bootle, on March 15, at the conclusion of an inquest on the body of William Howard, late a hairdresser in Dale Street, Liverpool. The Bootle police surgeon said that Howard had died from the administration of sodium cyanide. The bottle found was unlabelled, and the poison was one not contained in prescriptions or sold by pharmacists, but solely used by manufacturers in the photographic and some metal trades. How the deceased could have obtained it was a mystery.

"The other day, I attended," writes a *C. & D.* correspondent, "the unique canteen formed by Ayrton, Saunders & Co., Ltd., on two floors of one of the Duke Street blocks conveniently reached from the Hanover Street reconstructed head offices and packing-rooms. About 500 of the employees, male and female, trooped in from all departments and were served with lunches, light or substantial, as inclination dictated. The bright and friendly tone which prevailed at each of the numerous tables, at any one of which a newcomer found a welcome, contrasted most favourably with the cold and rain outside. The hour fled too soon, and one felt bound to linger awhile in the library corner, where scientific works, as well as novels, were being circulated. The social round includes chamber concerts and amateur theatricals."

At the conclusion of the Liverpool Chemists' annual dinner (*C. & D.*, March 17, p. 364), Mr. W. H. Saunders (Ayrton, Saunders & Co., Ltd.) called for thanks for the President (Mr. A. W. Ashcroft), for his services in the chair, adding: "Mrs. Ashcroft wishes to say a few words." The apt way in which the wife of the President responded to this novel invitation added zest to the enjoyment of a pleasant evening. Mr. T. Edward Lescher's toast at the dinner is referred to by the "Liverpool Daily Post and Mercury" in this note:—"Mr. T. E. Lescher, a name familiar among pharmacists in Great Britain and the Colonies, has lately arranged to spend over half his time in Liverpool. He thus renews a connection with Lancashire which dates from his septennial period as a student at Stonyhurst. So pleased was he with his course of training at the school, which loomed large in the popular mind at the period of the Tichborne case, that Mr. Lescher in due course sent his three sons to Stonyhurst."



### Manchester

Mr. John Holmes, Ph.C., of the representative staff of R. Gibson & Sons, has made a good recovery from his recent operation, and is gradually resuming his duties.

A chemist visiting a Manchester wholesale house on some business was invited to place an order for a crate of 8-oz. bottles. On requesting that the sample shown should be measured, it was found that the bottle only held  $7\frac{1}{2}$  fl. oz. when quite filled. Other bottles were also tried with no greater success.

Mr. F. G. Howard, general manager of Edward Taylor, Ltd., plaster manufacturers, Salford, who has been seriously ill for a considerable period, is now convalescent and, we are informed by Mr. D. Dixon (who has resumed the management of the London branch), hopes to return to business in about two months' time.

The recent scare with regard to the skin poisoning, among women in particular, supposed to be caused by the dye used on cheap furs has been responsible for about twenty cases a week at the Manchester and Salford Skin Hospital. A consulting physician there has been reported as saying that the disease is not quickly cured, for the dye in these furs is a powerful irritant.

An All-British Wireless Exhibition is being held here this week. The chief aim of the display, apart from the advertising aspect, is to encourage experimenters. The Wireless Society of Manchester gives its assistance to real research work, and its transmitting power, its workshops and machinery are at the disposal of all serious students. Among the exhibitors are Mottershead & Co., chemists.

A pleasing innovation was made at the luncheon given in honour of the visit of the President of the Pharmaceutical Society to Manchester on March 14 (see p. 412). The President of the Manchester Pharmaceutical Association and Mrs. Simmons entertained the President of the Pharmaceutical Society and Mrs. Neathercoat, and several ladies were present for the first time at a luncheon of the Association. The President and secretary of the Salford Association were also present.

It is announced that Viscount Morley has resigned the chancellorship of Manchester University.—Mr. R. S. Adamson, senior lecturer in botany at Manchester University, has been appointed professor of botany at Cape Town University.—The Court of Governors of the Manchester University has conferred the honorary degree of doctor of science on the following:—N. Bohr, Ph.D., Copenhagen, formerly reader in mathematical physics in the University of Manchester; F. G. Hopkins, F.R.S.; Sir W. Dunn, Professor of Bio-Chemistry, University of Cambridge; W. B. Worthington, B.Sc., President of the Institution of Civil Engineers, 1921-22.

### Sheffield

Chemists in the west end of the city are likely to have a slightly reduced rate.

The slackness in trade is accounting for quite a number of lady assistants being out of employment.

Cole Bros., Ltd., are pushing their toilet department by Press advertisements and special window display.

Several incomplete Insurance prescriptions are being returned to chemists in accordance with the resolution that full titles must be given.

### Miscellaneous

THE WELLCOME HISTORICAL MEDICAL MUSEUM will be closed for cleaning and decoration from April 1 to April 30 inclusive.

FIRE.—An outbreak of fire, which originated in the cellar, occurred on March 15 at the shop of Mr. A. J. Watts, St. David's Road South, St. Anne's-on-the-Sea. The damage was slight.

SHOPPING WEEKS.—Shipley Chamber of Trade has undertaken to organise a shopping week if 75 per cent. of the shopkeepers will take part.—The date of the Ossett shopping festival has been postponed until October. It is proposed that a trades' exhibition should be held in connection with the festival.

COST OF LIVING.—It is announced by the Ministry of Labour that, on March 1, the average level of retail prices of all commodities taken into account in Ministry of Labour statistics was about 76 per cent. above that of July, 1914, as compared with 77 per cent. on February 1, and 176 per cent. on November 1, 1920.

IN THE COURTS.—In Uppingham County Court, on March 13, Mr. Cornelius Bayley, chemist and druggist, obtained judgment for the sum of £1 1s. in respect of dental repairs for the wife of the defendant, Leonard Burnham.—At Morecambe Police Court, on March 13, John S. Holland was charged with breaking into Taylors' Drug Stores, 30 Regent Road, with intent to commit a felony, and being in possession of house-breaking implements. Medical evidence showed that the youth's mentality did not correspond with his years. The magistrates found there was no felonious intent, and dismissed the charge.

BORIC ACID IN CAKE.—The Ministry of Health issued on March 20 a circular (No. 381, Stationery Office, 1d.), pointing out that all the members of the Bakery Allied Traders' Association are to sign an undertaking not to manufacture nor import liquid whole egg containing more than 1 per cent. of boric acid, nor to purchase for shipment new season's yolks containing more than 1.5 per cent. of the acid. A further resolution of the Association provides that liquid whole egg must not be used in the manufacture of sponge fingers and certain other specified goods. Local authorities will still be able to take proceedings under Section 3 or Section 6 of the Sale of Food and Drugs Act, 1875, in cases in which they consider the amount of boric acid found in samples to be excessive.

EXETER PHOTOGRAPHIC EXHIBITION.—Among the prizes offered in connection with Exeter Photographic Exhibition, which was opened, on March 13, by the Mayor, Mr. Philip F. Rowsell, F.C.S., was a silver challenge shield for competition in local classes by Hinton Lake & Son, Ltd., chemists, Mr. J. W. Lake presenting a silver medal to accompany the trophy. A silver medal for competition in the same class was given by Broom, Reid & Harris, chemists, Queen Street. Mr. J. W. Lake presided at the opening ceremony and at the annual dinner, which was also attended by Mr. and Mrs. Rowsell. Acknowledging the toast of "The Chairman," Mr. Lake mentioned that his father (Mr. J. Hinton Lake, Ph.C.) and himself were the only founders of the Exeter Camera Club who were still on the active list.

## Irish News

### Brevities

Trade circles in Ireland have been somewhat relieved by President Cosgrave's statement that the customs barriers against Great Britain and Ulster will not mean a tariff war.

The Clerk reported to the Strabane Board of Guardians that two samples of drugs submitted for analysis from the Strabane dispensary district were below the standard quality, one being 8.5 per cent. deficient in ammonia.

Tenders are invited by the Clerk of the No. 1 Limerick Rural Council for supplying the dispensaries in the area with medicines and appliances for twelve months, from April 1 to March 31. Persons tendering must state the percentage of abatement which they are prepared to allow on the prescribed lists.

### Belfast

Miss Dorothy I. Dobbin, M.B., B.Ch., daughter of Mr. William C. Dobbin, M.P.S.I., Belfast, has obtained the Diploma in Public Health of Queen's University, Belfast.

Among the speakers at a recent meeting in Portadown, under the auspices of the Ulster Anti-Prohibition Council, was Councillor Matthew McDonald, Ph.C., Donegal Street, Belfast.

In the House of Commons for Northern Ireland, White, McMillan & Wheeler, solicitors, on behalf of the Ulster Retail Drug Trade Association and others, have



presented a petition against the Belfast Corporation Bill which would give the Corporation power to open and maintain night dispensaries. The petition was read and ordered to be put upon the table. It is probable, however, that when the measure reaches Committee the matter will have been adjusted.

#### Dublin

The Irish Railway Clearing House, Dublin, announces that on and after April 1 the Irish Free State Customs and the British Customs will require on prescribed forms a detailed declaration regarding all traffic, whether liable to duty or not, to and from the Free State and outside countries, as well as Northern Ireland and the Isle of Man. The declaration forms must be furnished for all traffic dispatched on and from March 26, in order to ensure compliance with the regulations. It is understood that the whole cost of accommodation and examination will fall upon the harbour authorities or shipping companies, and that charges to cover services at both the British and Free State ports will be made according to weight on every consignment. The charges will range from a minimum of 2d. for the smallest non-dutiable parcel to 6s. 8d. for a consignment of dutiable goods weighing a ton. For the present, these charges will not apply to Customs barriers between the Free State and Northern Ireland.

#### Londonderry

Mr. James Hill, Ph.C., was among the successful competitors at the recent point to point races at Strabane, co. Tyrone.

At a temperance demonstration in Londonderry, at which fifteen Protestant churches in the city were represented, a resolution was passed calling for restrictions in the sale of methylated spirits throughout Northern Ireland.

## Scottish News

#### Brevities

Midlothian County Council has appointed Mr. G. H. Gemmell, F.I.C., F.C.S., Edinburgh, as public analyst for the county, in succession to Mr. Stevenson Macadam, resigned.

Printed paper packets, prepaid one halfpenny only, intended for despatch on the day of posting, may be posted at the Glasgow Head Post Office or at the Waterloo Street Branch Post-Office up to 5 p.m., instead of 3.30 p.m. The time of collection for similar packets throughout the city and suburbs is between 4 p.m. and 4.45 p.m.

The popularity of the missing letter competition in connection with "Lawrence's West Highland Almanac" (Lawrence & Shepherd, chemists, Oban) is demonstrated by the fact that 2,183 answers were received, a number far in excess of any previous year. The draw for prizes took place on March 5. The missing letter was "O," omitted from the word "Boot," in "Adeo Boot Polish," page 124.

At Perth Sheriff Court, on March 17, J. Douglas, a farmer, was charged with being in unlawful possession of tincture of opium, which, it was stated, had been procured for scouring calves. The Procurator-Fiscal said the charge had been brought to impress on farmers the necessity of conforming with the regulations, one of which was that they must keep drugs under lock and key. The bottle containing the laudanum had been kept on the dresser in the kitchen. Mrs. Douglas had taken a little of the contents and subsequently died. The charge was dismissed.

At a meeting of Huntly Town Council, on March 12, an application was submitted from all the chemists in town requesting the Council to make an Order with regard to closing hours. After giving a detailed explanation of the subject, the clerk said it would appear that, while an Order could be made by the Council fixing the day of the weekly half-holiday (subject to the obtaining of medicine and medical and surgical appliances), no real effective closing order could be made fixing the hour of

the evening closing. It was moved and seconded that no action be taken when an amendment was proposed that, as all the chemists had applied for an Order, the Council agree to make one. As the amendment was not seconded the motion was carried.

#### Edinburgh

Among the inventories of estates recently lodged is that of the late Dr. A. M. Williamson, medical officer of health for the city. £7,826.

Since February 15 seven deaths have occurred at the Edinburgh Royal Infirmary from sleeping sickness. With one exception all the victims hailed from Edinburgh and Leith.

At Edinburgh Sheriff Court, on March 15, Ralph Williamson, described as a drysalter, Lochrin Place, was fined £2 for supplying to a labourer a gill of methylated spirits as, or for, a beverage.

"The Scots and English Poetry of Robert Louis Stevenson" was the subject of an address given by Dr. J. F. Tocher, Ph.C., Aberdeen, to members of the Robert Louis Stevenson Club in the Royal Arch Halls, on March 14.

Printed packets prepaid one halfpenny may now be posted at the chief office not later than 5 p.m., instead of 3.30 p.m., if they are intended for despatch on the day of posting. The latest time of posting similar packets in the letter-boxes throughout the city is 4.30 p.m.

#### Fife

Fife Panel chemists have received the balance of payment for drugs supplied during the medical year ended December 1922.

Rumours are current of the pending amalgamation of the Scottish Pharmaceutical Federation and the Retail Pharmacists' Union.

Mr. Andrew Hogg, chemist and druggist, has been appointed to supply pharmaceutical requisites to the Burgh of Leven.

The present spell of fine weather has given a *coup de grâce* to winter lines, which most chemists lament have had no season at all. Many Fife chemists are doing a brisk trade in flower and vegetable seeds.

## Business Changes

MR. F. BENTLEY, chemist and druggist, has acquired a business at Kibworth Beauchamp.

BREBNER, LTD., chemists, have opened a pharmacy in Cudworth Road, Willeborough. [Corrected note.]

MACE & HALDANE, LTD., importers and exporters, 64 Chiswell Street, London, E.C.1, will shortly remove to 39 Mitchell Street, E.C.1. Telephone, Clerkenwell 3575.

THE METHYLATING CO., LTD., have removed their registered offices from 38-41 Finsbury Court, Finsbury Pavement, London, E.C.2, to Kinnaird House, Pall Mall East, S.W.1. Telephone, Regent 5621.

SICILIAN OILS AGENCY.—Gerald Bromage & Co., Ltd., 9 to 10 Foster Lane, London, E.C., have been appointed sole selling agents in the United Kingdom for the essential oils of Gio. Fisco. Marangolo, Messina.

MR. HAY MARSHALL, chemist and druggist, 91 West Green Road, London, N.15, has acquired the business of Mr. T. Byass Jones, 331 West Green Road, and will carry it on under the management of Mr. Fred. Crack, chemist and druggist. Mr. Byass Jones retires on account of ill-health.

MR. E. H. NICOLL, for many years managing director of Dakin Brothers, Ltd., has assumed the control and the managing directorship of Baiss Brothers & Co., Ltd., which was in liquidation. A new company has been formed under the same title to conduct the business of the old concern, so that there will be no break in the continuity of the business, which has been established over one hundred years.



## Legal Reports

**Supply of "Noxious Things."**—At Birmingham Assizes, on March 15 and 16, the hearing of charges against Harry Key, chemist, of supplying "noxious things" (*C. & D.*, January 27, p. 105) took place. Mr. Maurice Healey and Mr. Williams appeared for the prosecution, and Mr. Birkett and Mr. Finnermore represented the accused. In the course of the case for the prosecution it was stated that the police raided the shop at 96 and 97 Hill Street, in the occupation of Curtis Surgical Appliances, Ltd., and found certain drugs. Witnesses also gave evidence of transactions. Harry Burton, a salesman in the employ of the company, said the purpose of the business was the sale of surgical appliances. The business in female remedies was small and never encouraged. The Judge: It was very profitable?—Yes. If profitable and quite harmless, why didn't you encourage it?—There was more profit attached to the surgical appliances. Mr. William Thomas Rigby, county public analyst, said that certain of the goods submitted to him contained no detectable quantity of a certain drug. Mr. Birkett submitted there was no evidence that the prisoner knew that the goods supplied were intended for unlawful use. All the documents produced in the case clearly showed that the various articles described were sold by the limited company, and all the witnesses declared they wrote to and paid the limited company. According to the rates book the occupiers of the premises were the limited company. Mr. Birkett also submitted there was no evidence of supplying. Mr. Healey, in reply, said Key could not be divested of criminal responsibility by saying he was on the premises in some capacity connected with the company. That would put the criminal law into a position of absurdity, and any man who wanted to carry on a business such as was suggested had been carried on in the present case would merely have to turn his business into a limited company and thereby escape responsibility. The judge held that the prosecution had failed to establish their case. It looked as though there was a loophole in the criminal law which ought to be closed up in some way, but, as the law stood, he must direct the jury that the prosecution had failed, because the goods were the goods of the company and supplied by the servants of the company. It was true that Key was acting as manager, but so far as his instructions could be proved they were perfectly harmless, and there was no evidence that Key knew anything about the supply in the cases mentioned. The jury returned a verdict of "Not guilty."

## Dispensing Tested

At Salford Police Court, on March 16, Ellis Whittaker, Ltd., chemists, Regent Road, were summoned for supplying pills not in accordance with a prescription. Prosecuting on behalf of the Health Committee, Mr. H. H. Tomson said that on January 30 a boy was sent to the defendants' shop with a prescription for some pills composed of *pilula aloes et ferri*. Upon analysis those supplied were found to contain *pilula aloes et myrrhæ*. In reply to the magistrate, the inspector said it appeared to him to be a clear case of substitution. For the defence, Mr. A. Howard Flint expressed regret, and said the defendants had always found the manager careful and competent. On the day in question his assistant was away ill, and owing to being very busy the manager only glanced at the prescription when it was first handed to him, and when he came to make up the pills he relied upon memory; a *bona fide* mistake had been made. In imposing a fine of £3, the magistrate said that prescriptions should be read properly, and not merely glanced at; otherwise the consequences might be serious.

At North London Police Court, on March 16, Mr. Sidney Sayer, chemist and druggist, 68 Devonshire Road, Holloway, N., was summoned for supplying a prescription deficient in sodium salicylate to the extent of 8.4 per cent. Mr. C. H. Kirby, for the defence, entered a plea of "Guilty." Mr. Brian Bramall, for the Islington

Borough Council, said that the prescription was supplied to the inspector by the borough medical officer. He had to point out that the defendant's shop was situated in a working-class neighbourhood, and that the greater number of prescriptions he would be called upon to make up would be for panel patients. He did not, however, suggest that the prescription as supplied would be in any way injurious to the patient. Mr. Kirby pointed out that the deficiency was very small, and the analyst's certificate translated in another way showed that there was a deficiency of only 10.1 grains in 8 oz., or a little over 1 gr. to the oz. The only explanation was that the defendant had not been quite accurate in weighing the drug. The gain to the defendant would be less than 3d. On this particular day he was very rushed. He had been a little over a year in business after serving for four and a half years in the R.A.M.C., and being mentioned in despatches. Mr. Sayer, in the witness-box, told the magistrate that he could only put this mistake down to being very busy. The magistrate remarked that a good deal of public interest was being taken in these cases. He should dispose of the case by calling upon the defendant to pay £2 2s. costs.

At the same court, Lewis & Burrows, Ltd., were summoned for selling at 274 Seven Sisters Road, N., a prescription deficient in potassium bromide to the extent of 27.1 per cent. and containing an excess of *spiritus ammoniæ aromaticus* to the extent of 13.3 per cent. Mr. Kirby, for the defence, said that there would be a plea of "Not Guilty," and asked that the third sample should be analysed by the Government analyst. The defendants had had an analysis made of the sample left with them, with a materially different result. Formal evidence of the purchase and division of the mixture having been given by an inspector, who said that he shook it at least twenty times before he divided it, the hearing was adjourned for five weeks.

At the same court, on March 19, Mr. Edwin Ward, chemist and druggist, 255 Well Street, Hackney, E., was summoned for selling a compound known as *mistura gentianæ composita* (London Insurance Pharmacopœia) which was totally deficient in emulsion of *chloroformi* and *acidum hydrocyanicum dilutum*. The three other ingredients in the compound were correct. Mr. Kirby, defending, pleaded "Guilty." Mr. Leo Taylor, public analyst for Hackney, went into the witness-box at the magistrate's request, and said that the mixture would relieve a cough. He regarded the two missing ingredients as most important. The chloroform emulsion was not ordinary chloroform water. By Mr. Kirby: It was a flavouring agent, but also warmed the patient. Mr. Kirby said that the defendant had made up the prescription himself. He was interrupted while doing so, and when he returned to it he was under the impression that he had already put the two drugs into the mixture. It was a pure accident. The defendant had been in business at Well Street for nineteen years, and elsewhere for twenty years, and there had never been any complaint. The magistrate said he would have imagined that a chemist would have ticked off the ingredients as he mixed them, otherwise he might make the mistake of putting a drug in twice over. These cases had been sprung upon the public and the courts by the activities of certain local authorities. Mr. Kirby: But samples have been taken for years. The Magistrate: I have been here for a year and a half and have never had such cases until quite recently. My impression is that the Ministry of Health asked the local authorities to assist in securing the accurate dispensing of prescriptions. Mr. Tee (Hackney Town Clerk): That is so. I have five witnesses here (including two professional men), and I am asking for £10 10s. costs. Mr. Kirby protested against such a large sum being asked for. The magistrate said that the public were very interested in these prescription prosecutions, principally through the action which the Pharmaceutical Society had taken on the matter. He fined the defendant 20s., with £10 10s. costs.

New parcel-post rates to Brunei and to the Malay States are given in "The London Gazette" of March 20.



## Supplying a Cocaine Ointment

In Aberdeen Sheriff Court, on March 14, Mr. Angus Garden, chemist and druggist, was charged with contraventions of certain Regulations made under Section 7 of the Dangerous Drugs Act, 1920. The indictment enumerated twenty-four offences, alleged to have been committed in the shop at 39 Market Street, occupied by Mr. Peter Daffus Milne, chemist and druggist, where the accused was manager, on various dates. The charges related to supplying "dangerous" drugs to a medical practitioner from prescriptions given by him which did not comply with the Regulations; and with supplying to another customer an ointment which contained more than 0.1 per cent. of cocaine hydrochloride without a prescription given by a qualified medical practitioner, or the ointment more than once from one prescription, and failing to register the latter transaction. (Previous hearings of the case were reported in the *C. & D.*, February 24, p. 254; March 10, p. 325.) When the case was resumed on March 14, the fiscal said that, on the advice of Crown counsel, he had withdrawn two of the charges—those referring to the sales to the medical practitioner. The sheriff asked on what grounds these charges were withdrawn. Mr. Watt (for the defence): They knew they were wrong. (Laughter.) The Fiscal: There are no grounds stated. My instructions are to withdraw charges 1 and 2, and proceed with the others. The accused adhered to his plea of "Not guilty."

### EVIDENCE FOR THE PROSECUTION

Mr. Edward Rezin, advocate, giving evidence, said that in the beginning of 1922 Mr. P. D. Milne consulted him about his business, and granted witness a power of attorney. Witness advised Mr. Milne to take a holiday, and Mr. Milne put Mr. Garden in charge of the business. Mr. Garden was in charge from May until November 25, when he left. Cross-examined by Mr. Watt, witness said that Mr. Milne came back on August 8. When Mr. Milne returned, he had the keys of the shop, but he did not control the dispensing of medicine there. Witness was aware that Mr. Milne was anxious to dispense with Mr. Garden's services on various grounds, one of which was that he did not want to be at the expense of having a fully qualified man in his shop. Witness did not know that there was any quarrel between them. He considered that Mr. Garden conducted the business during Mr. Milne's absence. Mr. Garden got £3 10s. a week. John Murray, an apprentice in the employment of Mr. Milne, said that on October 28, 1922, a woman customer, Mrs. Cruickshank, came in and handed witness a small jar and asked for a repeat supply of an ointment to be made up, for which she said she would call. The ointment contained, among other ingredients, 3 gr. of cocaine hydrochloride. The date of the original prescription for the ointment, which was not presented with the order, was October 26, 1916. He did not see Mr. Garden make up the prescription. Cross-examined: The customer had been getting this ointment from time to time without any prescription, simply on the reference number. That was done by Mr. Milne over a long period of years. There was some disagreement between Mr. Milne and the accused. Witness heard the accused inform the customer, on another occasion, that she would have to get a new prescription before she got any more of the ointment. Mr. Milne gave information to the police in connection with this case, and took witness to the Police Office to make statements. Mrs. Cruickshank, the customer in question, stated in the witness-box that she got the ointment from Mr. Milne from time to time. She did not know that the ointment came under the Dangerous Drugs Act, as it was always called a "menthol ointment" in the house. After the police began to make inquiries she called at the shop and saw Mr. Garden for the first time. He told her that if she wanted ointment she must get a prescription for each time she wanted it. She had no difficulty in getting a prescription from her doctor. Cross-examined, witness said that after she had got her prescription, which entitled her to three supplies, she got another supply of the ointment. After using a little of it, and thinking it was not up to the mark, she went to complain, and Mr. Milne said

that he would have nothing to do with it, and would give her no more ointment, as he had had enough trouble over it. Mr. David Coutts, 345 Great Western Road, in business with his brother at 26 Broad Street, Aberdeen, said that he got a note from Mr. Milne's shop, in the accused's writing, for 12 gr. of cocaine hydrochloride. The percentage of cocaine in the prescription in question was 1.3 per cent. Cross-examined: The cocaine in the ointment could not have been used for any other purpose except by a person who knew how to extract it from the ointment. The Sheriff: You had better not ask him how to extract it, Mr. Watt. (Laughter.)

### EVIDENCE FOR THE DEFENCE

The first witness for the defence was Mr. P. D. Milne, chemist and druggist. He had to go to London for three months, he said, and on his return he only visited the shop for an hour or two at a time. He had had no quarrel with Mr. Garden. He only once saw the ointment made up, and that was done by Mr. Garden. He did not know at that time that the prescription was in the prescription-book, and some of the assistants must have been supplying it. It was possible that the ointment might have been supplied to Mrs. Cruickshank or her messengers since the passing of the Dangerous Drugs Regulations, but he had never dispensed it. After he came back from London, the business was not carried on under his supervision until his doctor gave him permission in November or December. When Mr. Garden made up that prescription, witness told him that the ointment was not going out of the shop without a prescription. Instead of that, Mr. Garden gave the patient the ointment against his orders. Mr. Angus Garden, examined, said he was thirty-four years of age, and had a wide experience. On Mr. Milne's return they quarrelled, and he handed in his resignation. Mr. Milne apologised, and asked witness to reconsider his decision, which he did. On October 28 he was absent from business with Mr. Milne's permission, but went back to work in the evening. He found the ointment pot on the counter, asked Mr. Milne for instructions about it, and was told to prepare it. He repudiated responsibility for anything that took place after Mr. Milne's return, and these offences had occurred in that time. Mr. Milne had a grudge against him. The sheriff said that the legal questions involved deserved some consideration: he deferred judgment. Giving his decision on March 19, the sheriff said it was abundantly clear that the accused was appointed assistant in the business with fullest powers of carrying it on. Upon the evidence as a whole he had no hesitation in finding in fact that the accused was the responsible person in charge during the whole period of his service with Mr. Milne. All the facts clearly pointed to the inference that he was the party, and the only party, who dispensed the prescription. Referring to the contention that Mr. Milne was responsible for accused's contraventions, the sheriff pointed out that it required statutory regulation (as in the case of the licensing laws) to make an employer responsible for his servants' breach of statutory regulations. The point was, however, in his opinion, definitely set at rest by a consideration of the terms of the Pharmacy Acts and the Regulations. There was no question but that the accused was a fully qualified chemist and person who was entitled to dispense prescriptions which came under the provisions of Article 6 of the Dangerous Drugs Act Regulations, on which the complaint was founded. It would be unfair to hold that the charges were of a serious character. If any serious cases of such a nature came before him he would be compelled to impose very substantial pecuniary penalties; the present case, however, was not one of that kind, and he would impose a modified penalty of £5.

"RINGING THE CHANGES."—"Chemists should be on their guard," writes a correspondent, "against two women—one of middle age and the other about thirty-five—who are travelling the country and successfully working the 'ringing the changes' trick. They recently victimised a prominent firm of Midland chemists of £5, a genuine £10 note being utilised in the operation."



## Dangerous Drugs Act Prosecutions

In Greenock Sheriff Court, on March 20, Mr. Archibald Taylor, chemist and druggist, Roxburgh Street, was charged with supplying, between September 1, 1921, and October 16, 1922, a man daily (or nearly so) with an ounce of tincture of opium contrary to the Regulations under the Dangerous Drugs Act, 1920. He was also charged with not having entered the sale in a book kept for the purpose and obtained the man's signature to the entry, contrary to the Pharmacy Act, 1868, and the Poisons and Pharmacy Act, 1908. Mr. Taylor pleaded "Guilty." It was stated by the fiscal that the man to whom the accused had sold the drug was a native of South Africa, and was addicted to drugs. When the new Regulations were confirmed he was unable to obtain tincture of opium, so he appealed to the respondent, who had supplied him. Mr. Morrison, for the accused, said his client was a chemist of long standing. In supplying the man with the drug he had been entirely misguided. His intention was to cure the poor man by slowly reducing the doses. Fines of £100 (or two months' imprisonment) on the first charge and £5 on the second were inflicted.

At Guildhall Police Court, London, on March 15, Howard Montague Fogden Humphrey, 57 Basinghall Street, E.C., described as a hardware merchant, was charged, on remand, with having unlawfully offered to procure morphine, heroin and cocaine for Tong Say Bros. Co., Amoy, China, contrary to Regulations made under Section 7 of the Dangerous Drugs Act, 1920 (*C. & D.*, March 17, p. 359). Mr. H. D. Roome, prosecuting, said in the course of his opening statement that the importation of drugs, except under licence, was prohibited by the law of Hong Kong. On October 11 last year there arrived off Hong Kong the steamship "Mishima Maru"; a Japanese subject named Tiew found on board was arrested. Among his possessions were two sofas and four armchairs. They contained between them, hidden in the upholstery, 2,400 ounces of morphine and 2,500 ounces of cocaine. Among documents discovered in the course of the search was a receipt to Tong Say Bros. Co. for £7,280, paid in four instalments between August 10 and 27 last year to the accused. The receipt was signed by the accused. There was another document relating to a second ship with 2,500 ounces of cocaine at 18s., equal to £2,250; 500 ounces of heroin at 20s., equal to £500; and 49 lb. of cocaine at 14s., equal to £548 16s. Sir Henry Curtis Bennett, for the defence, said that his client had only acted as intermediary between licensed dealers in France and Mr. Tiew. The drugs with which Tiew was stopped were purchased from two firms in Paris. Those two firms sent the drugs to Basle, and from there, upon the instructions of Tiew, they were forwarded to Marseille. The magistrate said he regarded the case as a very serious one. He inflicted the maximum penalty of £200 fine and six months' imprisonment in the second division. There would be a further three months' imprisonment in default of payment.

At Birmingham Police Court, on March 20, Southall Brothers & Barclay, Ltd., manufacturing chemists, were the defendants in charges brought under the Dangerous Drugs Act, 1920. There were five summonses, and Mr. W. J. Day, the prosecuting solicitor, explained to the stipendiary magistrate that there was no suggestion of illicit dealing in drugs. The complaint was concerning non-compliance with the conditions of the licence issued by the Home Secretary for the manufacture of morphine, diamorphine and cocaine. One condition stipulated that these drugs should be kept under lock and key in a special store, to which no one should have access except the persons whose names were mentioned in the licence. On February 3 a Home Office inspector found five girls packing strychnine in a room which was an open store containing tins of cocaine and diamorphine, and the fact that they were in that room constituted the offences charged. No illicit traffic had taken place, but it was known that in London at the present time the employees of firms manufacturing chemicals were approached and

offered bribes by persons dealing in dangerous drugs. The little tins of cocaine were available to any one of the girls had they been tempted or bribed to slip one or more of them under their blouses and take them away. Mr. Churchill, for the defence, said this was the first complaint against the company, whose existence dated back to 1820. It was a firm of the highest reputation. The reason the girls were in this room was that Messrs. Southall had an order from the Egyptian Government for the supply of strychnine, and this was the only available place for packing it. The work was being done under the supervision of Mr. Barker, a pharmacist in the employ of the company, who was one of the persons authorised in the licence to deal with the drugs mentioned in the summonses. Since the visit of the inspector the room had been divided off and all the Regulations under the Act and the conditions of the licence strictly complied with. He asked that the case might be treated as a technical infringement of the Regulations. The magistrate, remarking that it was necessary that the Regulations should be adhered to, imposed a fine of £25 on the first summons, with £5 5s. special costs. Four other summonses were dismissed.

At the South-Western Police Court, London, on March 20, Ernest George Harris, chemist's manager, High Street, Clapham, was summoned for supplying morphine sulphate to an unauthorised person. Mr. Barker, who prosecuted, explained that on February 16 Nurse Carroll was charged with being an unauthorised person in possession of drugs and bound over (*C. & D.*, February 16, p. 254). Immediately after the nurse was arrested, Detective-Inspector Parker saw the defendant, who made a long statement, in which he said that he had supplied the woman with 188 tubes of morphine sulphate tablets on 41 forged orders purporting to be signed by Dr. Harry Smith. It appeared that the defendant supplied Nurse Carroll for nearly seven months, and then became suspicious. He told her she was having a lot of morphine; she replied that she had a lot of patients, but if he did not want to supply her she must go elsewhere. Defendant refused to supply her any further. The prosecution submitted that to supply drugs to a person who was not authorised was in itself an offence, and there was also the question of whether the defendant exercised sufficient precautions. It was not until he had been supplying the woman for six or seven months that he became nervous for some reason or other. Detective-Inspector Parker stated in evidence that when he saw the defendant the latter stated that on January 16 he had told Nurse Carroll that he would not supply her with any more drugs, and added that the nurse had been to the shop many times for other goods. In reply to Mr. Cyril H. Kirby, for the defendant, the inspector said he knew defendant was a registered chemist and druggist. Mr. Harris had given every information about the case quite readily, and had produced his register showing all his supplies and sales. Nurse Carroll was a fully qualified nurse and had been in the district for over two years. Mr. Kirby suggested the question which the magistrate had to decide was as to whether defendant had acted in good faith, and not whether the orders were forged or not. He accepted the position that Dr. Smith did not give the orders and that they were forged, but he asked the magistrate to hold that the defendant had not committed an offence, because he was protected by the Regulation requiring that he should act in good faith. As a registered chemist he entered all drugs sold in the register. He was in business, among other things, for the purpose of selling this particular drug, which was a very valuable one, and might properly be supplied to a good many persons. He knew the woman as a nurse for a considerable time before she asked for morphine at all, and had supplied the drug on the strength of what was apparently an order written by a qualified medical man, or by someone with technical knowledge. The magistrate remarked that there was no improper intention on the defendant's part, but Mr. Harris had been guilty of an offence, and would have to pay 50s. on each of the four summonses, and £5 5s. costs. In reply to Mr. Kirby, the magistrate said he would state a case.



## New Companies and Company News

**P.C. means Private Company and R.O. Registered Office**

**WILLIAM EVERARD DAVIES & Co., LTD. (P.C.).**—Capital £10,000. Objects: To adopt an agreement with W. E. Davies and P. B. W. Freeman and to carry on the business of engineers, designers, consultants, chemists, etc. R.O.: Wellington House, Buckingham Gate, London, S.W.1.

**J. MCGREGOR (MORECAMBE), LTD. (P.C.).**—Capital, £250. Objects: To take over the business of a medical herbalist carried on by J. McGregor at 12 Market Street, Morecambe. The first directors are: J. McGregor, J. S. Chadwick, and W. Holland. R.O.: 12 Market Street, Morecambe.

**LEWIS JAMESON & Co., LTD. (P.C.).**—Capital. £500. Objects: To carry on the business of analytical, consulting, technical and industrial research chemists and assayers, publishers of technical and scientific books, manufacturing and pharmaceutical chemists, etc. R.O., 83 Queen Victoria Street, London, E.C.4.

**F. S. LINECAR, LTD. (P.C.).**—Capital £600. Objects: To carry on the business of chemists, druggists, dyers, salters, oil and colour men, etc. The first directors are: F. S. Linecar, 17 Hindman's Road, East Dulwich, S.E.22; B. Crowe, 34 Grove Park, Camberwell, S.E.22. R.O.: 43, Northcross Road, East Dulwich, London, S.E.

**FRENCH DRUG SUPPLY Co., LTD. (P.C.).**—Capital £300. Objects: To take over the wholesale department of Theodore Kempston carried on at 369 Oxford Street, W.1, and to carry on the business of perfumers, sundrymen, patent medicine proprietors and vendors, etc. The first directors are: T. and Mrs. M. Kempston, 9 Chesilton Road, S.W.6, and A. Alberman, 43 Arundel Gardens, Ladbroke Grove, W., pharmacist. R.O.: 369, Oxford Street, London, W.1.

**E. MATCHAM, LTD. (P.C.).**—Capital £5,000. Objects: To adopt an agreement with Eva A. Sneezum and to carry on the business of chemists, druggists, dispensers, dealers in photographic requisites, etc. The first directors are: R. and A. Sneezum, St. Aubyn's, Orwell Road, Felixstowe; W. E. Sneezum, 105 Hatfield Road, Ipswich; and a qualified chemist to be nominated by the other directors, to be known as a "fourth director." R.O.: 50, Westgate Street, Ipswich.

**JOSEPH NATHAN & Co., LTD. (proprietors of "Glaxo")** announce that they have decided to postpone consideration of payment of interim dividend on preferred ordinary and ordinary shares until a later date, when they can more definitely ascertain results of company's trading for the current year. The report will be published during April.

**APOLLINARIS & JOHANNIS, LTD.**—The directors have issued proposals for financial reorganisation. The 4 per cent. debenture stock amounts to £850,000, and there are deferred interest certificates outstanding to the amount of £238,000, entitled to interest at the rate of 6 per cent. per annum. The remainder of the capital consists of £1,190,000 of 5 per cent. cumulative preference, and an equal amount of ordinary shares. It is proposed to write down the debenture stock by 20 per cent., i.e., to £680,000, but to increase the rate of interest to 5 per cent. The holders of the deferred interest certificates are to be asked to consent to reduction in their rate of interest to 5 per cent., payable only out of profits earned, while provision will be made for their redemption. It is proposed to reduce the preference shares from £10 to £6, and the ordinary shares from £10 to £2, the new shares being all of one class, namely, ordinary.

**FINE CHEMICALS, LTD.**—A meeting of the creditors of this company was held on March 14 at 40 Mary Street, Dublin, when a statement of affairs presented showed liabilities amounting to £15,716 9s. 10d., of which £10,866 5s. was due to trade creditors. There were also partly-secured creditors for £13,850 4s. 10d. The assets consisted of cash £322, stock estimated at £5,506, machinery valued at £1,047, furniture, etc., estimated to

produce £1,536, rent due £29 3s. 4d., investments £646, good book debts (estimated), £5,463, and doubtful and bad debts £260, making total assets £14,811 6s. 2d., from which had to be deducted £769 18s. 6d. for preferential claims, leaving net assets £14,041 7s. 8d. After discussion, it was decided to confirm the appointment of Mr. W. Conan as liquidator, and a committee was chosen to assist him.—In the King's Bench Division, on March 15, an order was made staying proceedings in the action of M. Hunter & Son, cutlery manufacturers, Sheffield, against Fine Chemicals, Ltd.—Among the creditors are the following: S. Boyd, £65; Butler's Medical Hall, £478; Burgoyne, Burbidges & Co., Ltd., £136; Boileau & Boyd, Ltd., £139; A. J. Cahill, £55; Duncan & Flockhart, £69; Graesser-Monsanto Chem. Works, £55; Harker, Stagg & Morgan, Ltd., £235; Methyating Co., Ltd., £74; Parke, Davis & Co., £59; Potter & Clarke, Ltd., £105; Robinson & Sons, Ltd., £69; T. & H. Smith, Ltd., £266; T. J. Smith & Nephew, Ltd., £220; Stevenson & Howell, Ltd., £145; The United Alkali Co., Ltd., £71.

**SOUTHALL BROS. & BARCLAY, LTD.**—The annual general meeting was held on March 19 at the Chamber of Commerce, Birmingham. Mr. Thomas Barclay, chairman of the company, presided, and in moving the adoption of the report (*C. & D.*, March 17, p. 362), which was unanimously agreed to, said that it would be seen from the accounts that the profits for the year, after providing for every conceivable emergency, amount to £30,806, to which must be added the sum of £12,375 carried forward last year, making a total of £43,182. Out of this an interim dividend on preference shares amounting to £2,750 has been paid, leaving an available balance of £40,432, out of which the directors recommend a dividend on the ordinary shares of 10 per cent., with a bonus of 6d. per share, each free of tax, which will absorb £10,750. It was proposed to carry to reserve £6,000, increasing that fund to £34,000 and carry forward £20,932, instead of £12,375 in the preceding year. Turning to the balance sheet, the chairman intimated that the reserve fund, including the "carry forward," now stands at over £50,000. Sundry creditors and reserve for contingencies at £214,448 show a small increase over 1921; freehold and leasehold land, buildings and premises, and plant show but a slight increase. Stock-in-trade is reduced by £21,654, and debtors are £25,297 less. These reductions are satisfactory, especially when taken in conjunction with an increase in cash and bills in hand and at bank of £59,834. "The balance-sheet," said the chairman, "is, I think, a better one than 1921. The business is in its hundred-and-fourth year, and this is the twenty-sixth general meeting. The company has therefore been incorporated for twenty-five years, throughout which it has enjoyed a temperate prosperity, and one that has almost become monotonous. The directors proposed to make a little diversion now, and their aim will be, if success permits, to continue this year and afterwards as hitherto. They have no apprehension in recommending this distribution. The goodwill, which once amounted to £56,000, has been wiped out, and the earning capacity of the company has been steadily maintained. The company has not dissipated its resources. They have built them up and stood the test of the post-war slump. Also business with the company in 1921 and 1922 was more stable, by which he meant that the cost of production corresponded more closely with the selling price, for it has always been their custom to charge for goods at the lowest prices consistent with good quality and a reasonable profit, and to write down stocks after a fallen market to lowest current values. In one important section the stock was turned over no less than twelve times last year. These practices have enabled the company to keep their plant and workers occupied, so that there has been an incessant hum in the industrial hive, inspiring confidence in the management and energy in the workers. The directors gratefully acknowledge the skilful help of the staff and foremen, and no less cheerful and untiring efforts of the workers." At the extraordinary general meeting held subsequently a special resolution was carried unanimously, dealing with the organisation of the capital.



## Pharmaceutical Society of Ireland

### Council Meeting

The monthly meeting of the Council was held at 67 Lower Mount Street, Dublin, on March 13, Dr. A. J. Barnes, President, in the chair. The following members of the Council were also present:—Dr. J. A. Walsh, Dr. J. A. Mitchell, Messrs. D. M. Watson (Hon. Treasurer), John Smith, J. A. Bingham, J. Carroll Culbert, Fred. Storey, R. F. McCartney, S. Suffern, Wm. J. Hardy, G. A. McLean Lee, James A. Doyle, James Michie, Victor E. Hanna, Michael Ryan, and F. J. Fitzpatrick.

Mr. Richard Blair, Mr. J. E. Connor, J.P., and Mr. D. J. Nugent sent communications regretting they were unable to attend.

#### PRELIMINARY REGISTRATION

The following, who submitted certificates from other bodies, were admitted to Preliminary registration:—

Miss Sarah Fitzgerald, Ballingarry, Thurles, co. Tipperary; Mr. Bernard F. Leavy, of 22 Patrick Street, Mountmellick; Mr. John Magnier, Oliver Plunket Hill, Fermoy, co. Cork; Mr. F. P. Duffy, Lawn Hotel, Belturbet, co. Cavan; Mr. James W. Tate, of Inver, Ashley Park, Antrim Road, Belfast; and Mr. Kevin O'Doherty, of the Rexall Pharmacy, Cashel, co. Tipperary.

The REGISTRAR (Mr. A. T. Ferrall) said that in the case of the last-mentioned applicant the name in the birth certificate was Doherty.

The Council directed the Registrar to write to the applicant drawing his attention to the discrepancy between the name in his letter and that in the certificate, and stating that they could only register the name in the birth certificate.

#### CHANGES OF ADDRESS

The following wrote notifying changes of address:—

Mrs. Eileen Maher, Ph.C., to Butler's Medical Hall, 40 Mary Street, Dublin; Mr. Stanley B. Lester, Ph.C., to Medical Hall, Skibbereen, co. Cork; Mr. J. A. Patton, Ph.C., to Patton's Pharmacy, 269 Antrim Road, Belfast; Mr. F. P. Gurd, R.D., to 245 Woodstock Road, Belfast; and Mr. D. M. Honeyman, R.D., to Victoria Medical Hall, 177 Shankill Road, Belfast.

Mr. STOREY said that Mr. Rankin, of the Chemists' and Druggists' Society of Ireland, he had gone through the Register which Mr. Ferrall had sent to Belfast, and had made a number of corrections. There were on the Register the names of eleven chemists and druggists and twenty registered druggists who were dead; and there were a number of whom they were not sure. It would be well that Mr. Ferrall should write to the doubtful ones. They had not touched the list of pharmaceutical chemists.

The Registrar was directed to write to Mr. Rankin thanking him for his action in the matter.

#### OTHER MATTERS

The Pharmaceutical Society of Great Britain was thanked for a copy of the Registers, 1923.

Dr. E. H. Murphy was re-elected an examiner for the Preliminary examination, and Dr. C. W. Robinson, M.P.S.I., was re-elected an examiner in pharmacy.

Dr. Joseph MacDonnell, Ph.C., The Medical Hall, Skerries, co. Dublin, was elected as a member. Mr. Michael Bourke, R.D., The Drug Stores, Fulla, co. Clare, was elected as an associate druggist, and Mr. George Burton Johnston, Ph.C., 9 Diamond, Coleraine, was nominated for membership.

#### PENSIONS FOR PHARMACEUTICAL CHEMISTS

On the motion of Mr. Smith, seconded by Mr. Storey, the following resolution was passed:—

That the matter of pensions for pharmaceutical chemists as affected by the Bill at present before the Dail be referred to the Law Committee to take all necessary steps to have amendments introduced if possible.

#### THE REGISTERED DRUGGISTS

The report of the Registered Druggist Committee contained the following four points which, it was suggested, should be regarded as a basis for discussion

of a scheme for discontinuing the Registered Druggist examination:—

1. That the examination for the qualification of registered druggist be discontinued.

2. That all registered druggists on the Register for 20 years on the passing of these regulations be registered as pharmaceutical chemists on proving practical experience in compounding and on the payment of a fee of, say, £25.

3. That all registered druggists on the Register prior to January 1, 1922, for a less period than 20 years be allowed, in order to be registered as pharmaceutical chemists, to present themselves within five years for a modified examination in materia medica and compounding. The fee to be £15.

4. That all persons who, on the passing of these regulations, have served, or are serving, their apprenticeship with a chemist and druggist or a registered druggist be allowed, on completion of their four years' apprenticeship, and also persons on the Register of registered druggists after December 31, 1921, to enter for the ordinary Pharmaceutical Licence examination without further service to a pharmaceutical chemist, subject to evidence being shown of practical experience in compounding.

On the motion of Mr. Storey, seconded by Mr. Fitzpatrick, the following resolution was passed in reference to the suggestions of the Registered Druggist Committee:—

That the report be printed and circulated to each member of the Council and given full publicity and be discussed at the next Council meeting.

## Pharmaceutical Society of Great Britain

### Branch Meetings

**Buxton.**—A meeting of the Buxton members of the Society was held recently, at which Mr. R. Wright presided, and introduced Mr. H. Antcliffe, who addressed the meeting in regard to the formation of branches of the Society. It was unanimously decided to form a district branch. Mr. R. Wright was appointed Chairman and Mr. F. Salt Treasurer and Secretary, with a committee representing the district. Mr. Antcliffe was thanked for his address on the motion of Mr. R. Wright.

**East Cumberland.**—A meeting of members of the Pharmaceutical Society from Carlisle, Penrith, Brampton, Longtown, Keswick, Maryport and Wigton was held on February 22 at Carlisle, Mr. T. Ridley in the chair. Mr. Pilkington Sargeant, Vice-President of the Pharmaceutical Society, addressed the meeting, and it was afterwards resolved that a branch of the Society be formed, to be called the East Cumberland Branch. Mr. T. Ridley was elected *Chairman*, and Mr. T. G. Jones *Secretary and Treasurer*. Mr. T. M. Ridley will represent the branch at the annual conference in July.

**Exeter.**—The inaugural meeting of the Exeter Branch of the Pharmaceutical Society was held on February 28. Members were present from Exeter, Crediton, Bideford, Barnstaple, Ilfracombe, South Molton and Axminster. Miss M. E. Buchanan and Mr. P. F. Rowsell attended on behalf of the Council of the Pharmaceutical Society. Miss Buchanan outlined the functions which the new branches were intended to perform, and it was afterwards resolved that the branch be constituted under the title mentioned above. The following officers were appointed: *Chairman*, Mr. P. F. Rowsell; *Vice-Chairman*, Mr. W. J. Shepperd; *Treasurer*, Mr. S. S. Brown; *Secretary*, Mr. F. Southerden; *Social Secretary*, Mr. A. C. Milton; *Committee*, Messrs. W. R. B. Arnold, F. E. Battershill, H. Densem, M. T. Foster, G. F. L. Fisher, W. E. Hollows, F. March, I. R. Phillips, W. W. Pine, D. A. Reid, J. H. Scott, and A. Ware. It was decided to hold the annual dinner towards the end of April. A resolution was passed that representation be made to the governing body of the University College of the South-West in Devon to retain the school of pharmacy as an integral part of their curriculum. Mr. Rowsell commented on the success of the school, and emphasised the importance of members doing all they could to secure support. At the close of the meeting the members were entertained to tea by the Exeter Pharmacists' Association.



## Photographic Fair

THE change of venue of the Photographic Fair to Holland Park Hall, London, W., has enabled the industry to present what is probably the most representative display of photographic manufactures ever seen in this country, and much of the progress made in the photographic world during the past year is reflected in the exhibits. Most makers of plates have introduced a series of roll films, and the number of plates and cameras on the market has also been augmented. Appliances for developing and printing amateurs' films figure prominently on the stands of several exhibitors. There are also special displays of radiography, Press photography, colour reproduction, autochromes, and spirit photographs. The Fair opened on March 15, and remains open until March 24. The following are among the displays of interest to the drug-trade:—

A comprehensive exhibit of cases made of leather and stiff and limp canvas is to be found at the stand of S. R. ADAMS & Co., all descriptions of photographic apparatus being specially catered for. The material is of excellent quality and the workmanship of the best.

Tanks, lamps and dishes sums up the exhibit of DAVID ALLAN. Among the first-named is the Dallan, which is suitable for either film packs or plates. The tank is loaded in the dark, but all the subsequent processes of developing, fixing and washing are carried out in daylight. Other models include a horizontal tank for plates and a circular one for films. A developing and changing box which, when not in use, can be folded up, should appeal to a wider circle than tourists. All the apparatus is strongly made and well finished.

In addition to a new model of a box printer for making prints on development papers by artificial light, AMALGAMATED PHOTOGRAPHIC MANUFACTURERS, LTD., are showing a range of cameras which sell at prices varying between 13s. 6d. and £25. For those interested in colour photography the examples by the Paget process will be of considerable interest.

All classes and tastes have been catered for by the display of albums and mounts of BARTONS (BIRMINGHAM), LTD. Among the albums there is a loose-leaf type, the Simplico, which takes up to thirty-six pages, while at the end is a pocket for spare prints. Messrs. Bartons have of late improved their Quadro photo frames by substituting pins for the tabs at the back. These frames, we are told, are becoming increasingly popular as the advantages of the metal passe-partout edging over the paper are being realised.

A novelty in photographic printing is the "Campbell-Gravure" process of transforming a photographic negative into a printing block without screen or grain; this is being demonstrated at the stand of CAMPBELL-GRAY, LTD. A film is exposed, developed and fixed in the ordinary way, and is then treated with three successive baths, after which it is put on the machine, inked and a pull made in the usual manner.

Among the new products of the GEM DRY PLATE CO., LTD., is a range of roll films, and these are backed up by a comprehensive display of plates and papers. A series of enlargements illustrates the excellent results attainable on the company's bromide paper.

The advantages of using Noctona Vigorous are detailed at the stand of JOHN J. GRIFFIN & SONS, LTD., who state that it is well adapted for "D. and P." work and there is no fear of staining. The company have introduced a new grade of Goldona paper, cream, which makes for soft artistic prints. Messrs. Griffin have also placed on the market a series of roll films to fit all the well-known sizes of cameras. Each film is packed in an attractive yellow carton. The remainder of the exhibit comprises a wide range of apparatus and accessories.

Among the new cameras which are being shown, mention must be made of the Ensign-Cupid, of HOUGHTONS, LTD. This film camera is of a novel design, and its simplicity and price should appeal to the purchaser. By a special arrangement at the back, twelve pictures (2½ in. by 1½ in.) are obtained on a 2½ B spool. It is fitted with a direct vision view finder and packs

into a leather case in which there is room for two spare spools of film. The box Ensign is now obtainable in a brown covering and also with the frame view finder. The company has introduced a new film, in the carton of which are an order form and a label. The idea is that the customer, having finished his exposures, notes on the order form what is required in the way of developing and printing, replaces the spool in the carton, on which he sticks the label and posts it off to the dealer. Another portion of Messrs. Houghtons' exhibit is devoted to wireless apparatus manufactured by C. F. Elwell Ltd., and a second stand to tanks and printing apparatus for those who specialise in "D. and P." work.

The advantages of using panchromatic plates for photographing coloured objects such as stained glass, prints, fabrics and natural history subjects are ably demonstrated by IFFORD, LTD. Other negatives show the capabilities of Zenith (650 H. and D.), and Iso-Zenith (700 H. and D.) plates. One of the latest additions to the list of Ifford products is a range of roll films.

An exhibit of particular interest to all classes of photographers is that of JOHNSON & SONS, (MANUFACTURING CHEMISTS), LTD., who are evidently determined to prove that, so far as chemicals required for photographic processes are concerned, they can be supplied by British manufacturers. Platinum, gold, silver and their salts, as used in photography, are displayed at the front corners of the stand, and at the others the manufacture of metol and hydroquinone from coal tar and various chemicals in crystal form are shown. There are excellent displays of tank developers, varnishes and collodions, while demonstrations of the use of Septon, the one solution sepia toner (see *C. & D.*, February 24, p. 273), are being given continually. Messrs. Johnson mentioned that in order to speed up deliveries of the three sodas—carbonate, sulphite and hypo—stocks are being held in most of the larger provincial towns.

A novelty in the packing of mountant is to be found at the stand of V. K. ROTARY, LTD. In the centre of the mountant, which is packed in an attractive metal container, is arranged a well, which holds the small brush. By this means no dirt gets on to the brush or the mountant, an item of importance to all users of sticking pastes. The mountant itself, Grip-fix, is white, perfectly smooth and (as was demonstrated) its sticking properties are excellent.

Equipment for "D. and P." work forms the bulk of the exhibit of O. SICHEL & SAMUELSON, including developing tanks (a small model holding three gallons), printers, vertical enlarger, and a drying machine. Those intending setting up such a department should communicate with the firm before purchasing. Messrs. Sichel are the agents in the photographic and optical trades for Clarion wireless apparatus, and a number of the receiving sets are on view.

The difficulties encountered with view finders on vest-pocket cameras appear to have been solved by a frame finder and view meter manufactured by JAMES A. SINCLAIR & CO., LTD. This accessory can easily be slipped on to the camera, and considerably adds to its range of usefulness. Another accessory which Messrs. Sinclair consider that chemists might do good business in is the sale of hoods for lenses. The hoods enable photographs to be taken against the sun, which would otherwise be impossible, and are also particularly useful in preventing foggy negatives caused by internal reflection by brilliant light, such as sometimes prevails at the seaside.

Other exhibits of interest are: THE AUTOTYPE CO. (carbon and bromide enlargements); W. BUTCHER & SONS, LTD. (photographic and wireless apparatus); CRITERION PLATES, PAPERS, FILMS, LTD.; E. B. FRY, LTD. (passe-partout bindings, etc.); ELLIOTT & SONS, LTD. (Barnett plates and papers); THOS. ILLINGWORTH & CO., LTD. (plates, films and papers); IMPERIAL DRY PLATE CO., LTD. (plates, films and papers); KODAK, LTD.; ROSS, LTD. (lenses); THORNTON PICKARD MANUFACTURING CO., LTD. (cameras); WELLINGTON & WARD, LTD. (plates and papers).



## Retail Pharmacists' Union

### Annual Meeting

THE annual meeting of the Retail Pharmacists' Union was held at the Hotel Russell, London, on March 21, Mr. Thomas Hardy (chairman of the Executive) presiding.

#### ANNUAL REPORT

The CHAIRMAN, moving the adoption of the report (see *C. & D.*, March 17, p. 367), expressed the Executive's satisfaction with the success achieved during the year. The membership still tended to increase, and since January 24 a further 66 members had been added, making approximately 5,800. There was still a considerable amount of work to do, however, for there were many pharmacists in business on their own account who had not yet joined the Union, and it was the endeavour of the Executive to put forward schemes which would attract more members. The chairman alluded to the large number of inquiries which had been answered by Mr. Mallinson and the staff, and paid a cordial tribute to the way in which their chief official and those working under his guidance had conducted the affairs of the organisation. That every member of the staff was in harmony with the rest was shown by the fact that about a fortnight ago they all offered to work all night, it that was essential, in order to carry out the wishes of the Executive. The stocktaking department had proved exceedingly successful, and at the time the report was drafted there were three full-time stocktakers who had engagements up to the middle of the year. He emphasised that this was not a profit-making department, but was so organised that certain districts were worked at one time and thus a considerable saving of railway fares was effected. There was a demand, too, for the advertising service, while the Committee had been very active in regard to the National Insurance work. Many attacks had been made on the pharmacists concerned in such dispensing, and he felt that the meticulous care which characterised the great bulk of the profession had not received full credit. (Hear, hear.) With regard to the Dangerous Drugs Act, the Union was co-operating with the Pharmaceutical Society. (Applause.)

Mr. L. JOSEPH seconded, pointing out that the Union was still a young organisation, but during the two years of its existence it had done good work. He appealed for the assistance of members so that the Executive Committee could extend the scope and usefulness of the organisation. There were still many pharmacists who reaped advantage from the Union's activities who were not members of it, and that was a reflection on the men themselves.

The report was adopted.

#### FINANCIAL STATEMENT

Mr. ROWSELL presented the accounts, and said that although they were in such a financially sound position they had not stinted expenditure when it became necessary in the interests of pharmacy. He considered that they were fortunate in ending the year with over £1,000 in hand. Mr. Rowsell intimated that he had been one of a deputation representing the National Chamber of Trade which had waited on the Treasury that day, and mentioned the principal matters discussed. These, he said, had reference to the coming Budget. The first point they had urged was the necessity of public economy, and they had also asked for a reduction of the income-tax in the interests of the trade of the country. Another matter specially put before the Treasury was the desirability of the removal of the unjust Corporation Profits Tax. (Hear, hear.) They felt, too, that a thorough examination of the rating of the country was necessary, and finally had asked that co-operative societies should be brought within the range of income-tax. (Applause.) He moved the adoption of the financial statement.

Mr. YOUNG seconded, and testified to the increasing value of the price list issued by the organisation.

The statement was approved.

#### SUGGESTIONS ON DISPENSING

The CHAIRMAN read a letter from Mr. E. A. Geddes suggesting, *inter alia*, that prescriptions containing a

scheduled poison should not be dispensed by a medical practitioner or any dispenser employed by a medical practitioner who was not a registered chemist and druggist in cases in which a registered chemist was available. He also recommended that a sum of money be set aside in order to carry his suggestions into effect either by propaganda in the daily Press or in any other manner decided upon by the Executive. The chairman pointed out a special Act of Parliament would be needed to carry the proposals into effect, and no action was taken.

A vote of thanks to the Executive, proposed by Mr. H. M. LLOYD, was carried by acclamation.

**Swansea.**—The annual meeting of the Swansea, Neath and Port Talbot Branch was held on March 8, when the following officers were elected:—*Chairman*, Mr. T. Rogers (Briton Ferry); *Vice-Chairman*, Mr. W. Isaac (Morriston); *Treasurer*, Mr. J. Rees (Swansea); *Secretary*, Mr. J. E. Williams (Port Talbot).

## Chemists' Defence Association

### Annual Meeting

THE annual meeting of the Chemists' Defence Association, Ltd., was held on March 21 at the Hotel Russell, London, the President (Mr. Thomas Hardy) in the chair.

The PRESIDENT moved the adoption of the report (*C. & D.*, February 24, p. 249), which, he said, showed that the membership was very strong. They had a certain number of members in Scotland, but they were hoping to have a greater contingent from there. The work of the Association was one of the most interesting parts of the public life of the directors. Claims for damages which came before them were not only interesting but edifying, and in many instances very amusing. In particular, he mentioned a claim for the loss of several Pomeranian dogs sustained by a chemist who had prescribed for them. The animals died, and the Association paid out something like £40. Advice was available, not only on purely business matters, but also the private affairs of members. The directors had increased the benefits considerably, and the position of the Association was such as to merit support. (Applause.)

Mr. L. JOSEPH seconded.

Mr. MALLINSON, referring to an amendment of the rules to give greater scope to the organisation, pointed out that the increased benefits could only be claimed when a case arose out of a man's business as a chemist. The directors reserved the right to say whether they would take up certain cases or not. A simple illustration was provided by the infringement of a trade-mark, in which case the firm involved would have to issue a writ, and subsequent proceedings might be very expensive. Of course, if a firm became very vicious in its attitude towards a member of the Association the latter would have to fight. In spite of the extension of the benefits, he did not anticipate that this would make it necessary to ask for increased subscriptions. (Applause.)

The report and balance-sheet were approved, and authority was given to the directors to make the proposed alterations in the rules. The directors and auditors were reappointed, and a cordial vote of thanks to the President was carried.

**CREAM OF TARTAR FOR AUSTRALIA.**—The Director-General of Public Health in New South Wales states that cream of tartar recently imported into that State has contained an amount of lead in excess of the quantity permitted under the New South Wales Pure Food Act, 1908. The Director-General announces, therefore, that no cream of tartar shipped after January 1, 1923, will be permitted to be used in Australia unless the following regulation is complied with: "Cream of tartar shall contain not less than ninety-five parts per cent. of acid tartrates, calculated as potassium acid tartrate ( $\text{KHC}_4\text{H}_4\text{O}_6$ ); and not more than two parts per cent. of sulphates, calculated as calcium sulphate ( $\text{CaSO}_4$ )."



## Practical Wireless Telephony

### XV. Telephone and Loud Speaker

THERE are several types of telephone in common use, chiefly differing in resistance from 120 to 4,000 ohms and even higher, and used either as single or double earpieces or in conjunction with various amplifying devices applied to some form of trumpet, like a gramophone horn or megaphone, and described in the general term of loud speakers. When the late Graham Bell invented the telephone no battery was used in the telephone circuit; the current induced by the diaphragm of the transmitting apparatus, set in vibration in the vicinity of a coil of fine wire wound round the pole of a bar magnet, being used to produce the audible signal at a distance in a precisely similar instrument used as a receiver, but it was not until Crookes's discovery that two pieces of carbon or graphite in loose contact in a closer circuit were capable of producing variation of current corresponding to the minutest vibrations, which were faithfully reproduced in a telephone used as a receiver, that any real impetus was given to this valuable adjunct. Though this invention, the microphone, was given freely to the world, it was not long before numberless applications were patented by the makers of various forms of transmitters which only differed in details or methods of using the underlying principle of carbon loose contacts. A further improvement was the use of double-pole magnets on the telephone receiver, and still further advantage has been obtained by the selection of suitable material for the diaphragm. When using a crystal set it is generally best to use telephones of the highest resistance, and here it may be remembered that the incoming signals arrive at a voltage almost inconceivably weak, so that it is hardly possible to use it all up, however many telephones we use or however high their total resistance. The extreme sensitiveness of the telephone makes it rank as one of the most delicate of instruments known to science, perhaps only excelled by the quartz fibre reflecting galvanometer. So responsive to faint currents is a good telephone that the usual way of testing the sensitiveness is to put it to the ear and, taking one terminal between the moistened lips, to tap the other terminal on a ring on the finger, when a distinct tap or scraping sound will be heard in the earpiece. This sound is produced by the electric current generated by the action of the saliva on a minute surface of nickel or brass and conducted through the nerves and skin to the ring through a resistance in the body as an electrolyte of many thousand ohms. When the telephone is applied to a valve set using two or more low-frequency amplifiers there is a distinct current, unidirectional but variable, passing through the coil windings, and some experimenters prefer to interpose a stepping-down transformer and use low-resistance telephones, when the current used becomes perceptibly greater. In both these cases the direction of the current has a marked influence on the amount of magnetism in the poles, and it is desirable if best results are required to see that the current passes through the telephones in the direction that tends to increase the magnetism rather than in the opposite direction, as in the latter case, if the current used is at all strong and prolonged, it may eventually lead to the demagnetising of the poles, and so render the instrument ineffective. Some such condition as this may be the cause of the difference of performance of the same or similar sets of 'phones at different times, and is frequently the cause of a marked difference in the efficiency of the members of a pair. Other causes of inefficiency may be looked for in the diaphragm or its adjustment. Carelessness in use or examination of an earpiece may cause the diaphragm to become bent or buckled, a fatal defect, and a new diaphragm should be substituted at once. The thickness of the thin spacing washer profoundly modifies the reception, the diaphragm resting on a perfectly flat rim and washer should not quite touch the magnet poles—about one-hundredth of an inch should separate them—though if the magnets are strong a much greater distance will still be effective. Telephones should

always be handled carefully; the accidental knocking of the earpieces together is not good, as rough vibrations are apt to reduce the magnetism. The harder the steel the longer it holds its magnetism, and as hard steel such as the best tool steel is rather expensive the makers of low-priced instruments are often guilty of sacrificing this quality for the sake of cheap production. A fruitful field for experiment is the application of a microphone and small battery to a telephone diaphragm and the use of a low-resistance 'phone in the microphone circuit. A small apparatus such as the receiving sets supplied by various makers for the use of deaf people can easily be brought into use in this way with much advantage. A somewhat similar application is used by the makers of some forms of loud speaker, while others depend almost entirely on resonators and magnifying trumpets on the principle of the megaphone. At present, however, the difficulty of overcoming the distortion, which nearly always accompanies the magnification of the signal, makes the operating of these instruments rather unsatisfactory, and so far the less expensive kinds are not very useful, while the cost of the really effective types renders them almost prohibitive.

## Recent Patents

Abstracts of specifications of recently-granted patents for inventions. The complete specification (1s. each including postage) of British patents can be obtained from the Patent Office, 25 Southampton Buildings, London, W.C.2, on quoting the name of the patentee and the number of the patent.

**Chlorination of Organic Compounds.**—A process for preparing chlorinated organic compounds based on the use of sulphuryl chloride in combination with aluminium chloride and sulphur chloride, or, in the place of the latter, sulphur or carbon disulphide. (A. Boake Roberts & Co., Ltd., and O. Silberrad. 193,200.)

### GERMAN PATENTS

**Oxalic Acid.**—A process for the manufacture of oxalic acid characterised by treating wood with a solution of iron nitrate before exposing it to the action of nitric acid or nitrous gases. (Badische Anilin- & Soda-Fabrik. 370,972.)

**Basic Magnesium Carbonate.**—A suspension in water of normal magnesium carbonate is placed in a mixer at 40° C. for ten minutes, filtered, and the resulting basic magnesium carbonate, of the formula  $4\text{MgO} \cdot 3\text{CO}_2 \cdot 4\text{H}_2\text{O}$ , is dried. (Chemische Fabrik Griesheim-Elektron. D.R.P. 371,221.)

**Trinitroresorcin.**—Resorcin is treated with sulphuric acid and after the reaction is completed the product is cooled to 20°–30° C., whereupon concentrated nitric acid is added in a thin stream at a temperature of 45° to 50°. By this method 11 kilos. of resorcin yield 21 to 23 kilos. of pure trinitroresorcin. (W. Friederich. D.R.P. 370,957.)

## Gazette

### Bankruptcy Acts

RECEIVING ORDER AND ADJUDICATION

GALT, T. J., 25 Railway Road, King's Lynn, chemist and optician.

## College Notes

### "ALTIOR" STUDENTS' SOCIETY

THE last two meetings of the term were held by the "Altior" Students' Society (Leeds College of Pharmacy) on March 10 and 17. At the first meeting a paper was read by Miss K. P. Wrightson, giving a biographical sketch of Sir James Barrie. This was followed by an elocutionary recital by Miss F. Cousin. On March 17 a paper was read by Mr. Goodrich on *Spiritualism*, a subject which he dealt with in a concise manner.



## Births

Notices for insertion in this column must be properly authenticated.

EDWARDS.—At 4 Dunvegan Road, Wellhall, London, S.E.9, on March 20, Margaret Edwards (*née* Boothman), wife of A. W. Edwards, F.C.S., pharmacist (R. W. Greeff & Co., Ltd.), of a daughter.

## Marriages

MERCER—LUNAN.—At St. George's U.F. Church, Edinburgh, on March 14, Walter Mercer, M.B., Ch.B., to Maisie, daughter of Mr. George Lunan, Ph.C., F.C.S., 50 Garscube Terrace.

## Deaths

EDWARDS.—At Lynwode, Holloway Hill, Godalming, on March 12, after a long illness, Mr. Samuel Edwards, J.P., chemist and druggist, High Street, aged sixty-two. Mr. Edwards went to Godalming more than forty years ago as assistant to Mr. E. Barnes. A few years afterwards he commenced business on his own account in South Street, subsequently removing to High Street. Mr. Edwards was a member of the Town Council from 1904 to 1913, and also joined the local chamber of trade. He took a keen interest in sport, especially football and bowls. A widow, two sons and a daughter survive him. The funeral took place at Busbridge Church on March 15, when a large congregation assembled to pay the last tribute.

HAWORTH.—At Brooklyn, Belgrave Road, Darwen, on March 20, Mr. Frederic George Haworth, M.B., C.M., medical officer of health for the borough since 1895. Prior to obtaining his medical degree at Glasgow in 1882, Dr. Haworth was a chemist. He leaves a widow, a son and two daughters.

MACKENZIE.—On March 11, Mr. Donald Mackenzie, chemist and druggist, Tobermory, aged forty-four. Mr. Mackenzie, who was born in Islay and was educated at Ballater Academy and Falkirk High School, served his apprenticeship with Mr. James Bryce, Falkirk, and qualified in 1905. After managing a pharmacy for Alexander Robertson & Sons, Oban, for some years, he commenced business on his own account at Tobermory, and established a good connection in Mull and the Hebrides. Mr. Mackenzie is survived by a widow (by whom the business is being continued) and two sons.

POLGLASE.—At 144 Rye Hill, Newcastle-on-Tyne, on March 17, Mr. Francis James Wicks Polglase, F.C.S., chemist and druggist, proprietor of Polglase & Co., manufacturing chemists, Forth Banks, aged eighty. The firm was established for the manufacture of soda and other chemicals in 1873: Mr. Polglase eventually acquired his partner's interest and specialised in the manufacture of ether, chloroform, and other chemicals for technical uses. Mr. Polglase, who was a native of Falmouth, was well known in chemical circles, and possessed an excellent library. He is survived by a son, Mr. Philip H. Polglase, by whom the business will be continued. The funeral took place at St. Andrew's Cemetery, Newcastle, on March 20.

## Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

### Wednesday, March 28

The Thames Valley Pharmacists' Association, Elite Picture Palace, Kingston-on-Thames, at 2.45 p.m. Lantern lecture by Capt. R. S. Gwatkin-Williams, R.N., C.M.G., upon "Prisoners of the Red Desert."

NORTH LONDON PHARMACEUTICAL ASSOCIATION.—The annual dinner will be held on April 5.

## Personalities

MR. A. W. HUDSON, chemist and druggist, Cranbrook, has been elected Vice-President of the local tradesmen's association.

MR. A. H. ROBERTSON, chemist and druggist (Vince & Co.), Lancaster, has been elected Vice-President of the Lancaster Chamber of Trade.

MR. ARTHUR BARTH, of E. Merck, Chemical Works, Darmstadt, is at present in London on a business visit, and is staying at the First Avenue Hotel, High Holborn, London, W.C.1.

MISS PEGGY PALMER, youngest daughter of Mr. J. Spencer Palmer, chemist and dental surgeon, Thornbury, Bristol, won a prize of £10 for composition and a silver medal for pianoforte playing at the recent musical festival held in the Central Hall, Westminster.

ALDERMAN J. DUDFIELD ROSE, chemist and druggist, Jarrow, has just published a new edition of his illustrated handbook on St. Paul's Church and Monastery, the home of the Venerable Bede. Alderman Rose is a prominent member of the Newcastle Society of Antiquaries, and has devoted much study to the subject.

MR. FRANK L. TEED, D.Sc., F.I.C., F.C.S., is resigning the position of public analyst for the City of London. Dr. Teed began his career in 1874 as a student at University College, London, graduating B.Sc. in 1880 and D.Sc. in 1884. He has been a member of the Chemical Society since 1879, and of the Institute of Chemistry since 1888. He also served for three years on the Council of the Institute. His appointment as the City of London analyst took place in 1901, on which occasion (*C. & D.*, I., 1901, p. 708) we reproduced his portrait.

## Wills

MR. HENRY SEYMOUR HATHAWAY, dispenser, 15 Nevill Street, Abergavenny, who died on December 3, has left £3,114 8s. 10d., with net personalty £2,501 18s. 9d.

MR. JOHN ARMISTEAD HALHEAD, chemist and druggist, 18 Foxley Hill Road, Purley, who died on February 9, left estate of the gross value of £4,262 2s. 11d., with net personalty £1,930 1s. 4d.

MR. WALTER TIPPER, chemist and druggist, 205 London Road, Stoke-on-Trent, who died on December 3, left estate of the gross value of £1,553 8s. 11d., of which £1,312 5s. 3d. is net personalty.

MR. THOMAS BLEZARD, 8 Spring Bank, Preston, Lancs., chairman of Thomas Blezard, Ltd., wholesale druggists, who died on December 1, left estate of the gross value of £4,599 7s. 4d., with net personalty £1,306 19s.

MR. JAMES LAWRENCE WARD, 86 Clerkenwell Road, London, E.C., and Medford, Mass., U.S.A., managing director of the Angier Chemical Co., Ltd., who died in Tunis on January 10, left property in this country valued at £2,471 5s., of which £2,088 14s. 9d. is net personalty.

MR. WALTER GEORGE JAMESON, chemist and druggist, 36 Woronzow Road, Avenue Road, South Hampstead, and of Curtis & Co., chemists, 79 Baker Street, London, W., who died on January 20, left £13,014 9s. 5d., the net personalty being £1,872 3s. Among the bequests is one of £500 and the option of purchasing his business to his manager, Albert Latreille, if still in his employ.

DIET FOR HEALTH.—At a recent meeting of the Society of Medical Officers of Health, Prof. E. Mellanby said the consumption of cod-liver oil should be greatly increased. Teaspoonful doses are sufficient. It is the cheapest source of the vitamin on the market. More milk ought to be consumed. The eating of green vegetables, especially raw salads, should be encouraged. He would like to see calcium carbonate added to butter, say about 2 per cent. The difference this made was most striking. Adult diet should be regulated so as to contain more fat-soluble vitamin and calcium.



## Trade Notes

**BROMURAL TABLETS**, packed in tubes containing ten tablets, are again available.

**"KLEER VUE" DISPLAY CASES**.—Hill Bros. Glass Co., Ltd., 67, 68 and 69 Summer Lane, Birmingham, invite applications for particulars of a new kind of showcases.

**CACHETS FAIVRE**.—Wilcox, Jozeau & Co., 15 Great St. Andrew Street, London, W.C.2, announce that the wholesale price of Cachets Faivre are now 22s. per dozen.

**DOLS, LTD.**, Huddersfield, are showing Dols' flannel (volatalise) at the Hospital, Nursing and Midwifery Exhibition that opens at the Central Hall, Westminster, on April 3.

**PHOTOGRAPHIC DEVELOPING AND PRINTING**.—Thompson & Capper, Ltd., Manesty Buildings, College Lane, Liverpool, call attention to the facilities they offer chemists for developing and printing photographic plates and films.

**EARLIER CLOSING**.—Oppenheimer, Son & Co., Ltd., manufacturing chemists, 179 Queen Victoria Street, London, E.C.4, inform us that from April 3 till October 1 their premises will close at 5 o'clock, an hour earlier than at present.

**EUREKA WEED-KILLER**.—Tomlinson & Hayward, Ltd., manufacturing chemists, Lincoln, call attention to the Eureka weed-killer, for which there is an increasing demand. It is desirable to meet this so that the sale may be retained by the drug-trade.

**DEBT RECOVERY**.—The Association of Manufacturing Chemists, Ltd., 26, 27 and 28 Kimberley House, Holborn Viaduct, London, E.C., have issued a booklet giving particulars of the company's system of collecting debts. A list of the members of the Association is given which is almost a complete directory of the wholesale trade.

**CAPSOL DYES**.—Capsol Dyes, Ltd., Sep Avenue, Blackpool, whose products are advertised in this number, have sent us a selection of packages of advertising matter supplied to chemists. The dyes are conveniently packed for sale, and the card outers act as silent salesmen for the goods. Tint cards, showcards and handbills are also supplied.

**SPRING LINES**.—Arthur H. Cox & Co., Ltd., manufacturing chemists, Brighton, send us samples of three lines specially suitable for spring sale. These are blood-purifying mixture (a "known, admitted and approved" remedy), Dr. Wood's health saline (a pre-war article), and sulphur cream soap. These are all well packed, and the retail sale is assisted by the supply of suitable showcards.

**CRUDE DRUG PRICE LIST**.—S. B. Penick & Co., 115-117 Fulton Street, New York, send us an interesting price list and manual of crude drugs, in the centre of which are made a number of market comments concerning the crude drug supply. Considerable information is also given concerning the prevailing uses and the common names of American botanicals, in which the firm operate at the sources.

**RESETTING CLINICAL THERMOMETERS**.—Difficulty in shaking down a clinical thermometer is one of the minor worries of a doctor's life, and several mechanical ideas have been put forward to get over the trouble. C. H. Zeal, Ltd., 77 St. John Street, London, E.C.1, advertise in this issue a patent thermometer case which seems to have solved the problem. The "Acello" resetting case is shown in the company's advertisement, and as it can be retailed at 2s. 6d. it should command a ready sale.

**PLATINUM IN SPAIN**.—According to news received by mining circles, the borings effected in the Serrania de Ronda (Province of Malaga) in search of platinum have given satisfactory results, as they have demonstrated the existence of the metal in appreciable proportions. The alluvium, which is volcanic, is of the same nature as that of the Urals.

## The Glaxo Controversy

**JOSEPH NATHAN & Co., LTD.**, proprietors of Glaxo, 56 Osnaburgh Street, London, N.W.1, have sent out to chemists the following circular:—

As you know, we took the drastic step of cutting off grocers' supplies to stop the cutting of Glaxo. With a national article, such as Glaxo, we were doubtful if the policy was a wise one. Events have further proved that our doubts were right, and they are confirmed by the statement made by our own secretary, Sir William Glyn-Jones, in an address delivered on February 22 at the Quarterly Meeting of the General Purposes Committee of the Federation of Grocers' Associations:—

Last of all there came the action of the proprietor of a dried milk. Unfortunately, the proprietors of that article took a different view, and they took the line of withdrawing the article altogether. He wanted to say at once that the moment it was done he took the opportunity of repudiating that policy on behalf of the Association, and since then the Council of the Association had publicly repudiated the policy. It was not their policy, and it was a wrong policy.

If any system of price maintenance depended upon what he might call an artificial boundary, the public would see very soon that the price maintenance was broken up. Any view that an article should be confined to a chemist or any other trade was wrong, because it was an interference with the public, and an encroachment on the rights of various trades, and in such circumstances he would despair of any future for any proprietary article. You could not draw lines between trades and trades. Who could define them?

Being thoroughly convinced that the above principles are sound, and will eventually result in maintaining and consolidating price protection, we cannot now withhold supplies from established traders who have given us a written undertaking to respect the price of Glaxo.

The letter is accompanied by an extract from an address by Sir William Glyn-Jones before the General Purposes Committee of the Federation of Grocers' Associations, quoted from the "Grocers' Gazette."

We have received numerous letters and postcards from chemists criticising this change of policy, which, however, it is not necessary to print in view of the explanation of the reason for the change which is given by the proprietors of Glaxo.

## Information Department

### INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

E/153. A.C.D. composition stoppers	E/163. Magnetic dry cloth-cleaner
P/103. Dr. Williams' vinegar bitters	H/103. "Ne plus ultra" nasal douche
P/203. Eczemos (for dogs)	S/203. Oldoreen tooth paste
B/203. Endoin Ointment	N/193. Schlusser's remedies (London supply)
B/193. "Featheredge" sponges	C/133. Sodium soyate
B/193. Holland Monk's Haastomi (or Haastoni) Herb for kidney trouble	B/193. Velenate crêpe bandages
E/203. Huxtable's cod-liver oil	M/212. "Wizard" arch support
L/203. "Le Monstre" toilet soap	S/173. "Zarabee" poudre de riz

### INFORMATION SUPPLIED

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4.

Bonopto. B/153	Integar capsules. A/193
Calol liquid paraffin. W/203	"Kemolite." L/203
Camphorodyne. B/203	Kresophen disinfectant. H/203
Choco lax. M/193	Osmo-Kaolin. R/163
Cockle's Pills. P/213	"Paco" malt and oil. N/213
Crembas. H/193	Parinol wax. H/203
Cremogen. H/193	Roger's Violet-ray apparatus. H/203
Dialacatin. N/192	"Zip" depilatory. A/163
Glazed ointment pots. H/173	
"Gorgon" flycatchers. M/133	



## Observations and Reflections

By Xrayser II.

### The Manifesto

put forth by the Retail Pharmacists' Union in reply to the attack that has recently been made upon us in a section of the public Press is open to one objection, which I state with some reluctance, knowing that I may be misunderstood. It is that the term "chemist" is throughout used in a too arbitrary and exclusive sense. I am as great a stickler for our right to and retention of this title as anybody, but our right to it is conditional and qualified by the purpose for which we exist. We are *chemists and druggists*, and it is only as chemists and druggists in business that we claim or have a right to claim the title "chemist." It is true that in the Act of 1868 both "chemist" and "druggist" are separately protected, but that is only to prevent the use of either by unqualified rivals in business in such a way as would make our full title non-effective. That Act gives us no right to deny the title "chemist" to members of the Chemical Society or other similar body, so long as they do not encroach upon our rights as chemists and druggists in business, and we never have denied it. I do not suppose that the authors of this manifesto deny it, but their use of the title in this absolute sense is needlessly provocative to many who are more than sufficiently sensitive to such affronts. It has occasioned a misstatement in the manifesto itself. It is simply not true that the occupation of a chemist cannot be entered upon in Great Britain without submitting to the training and passing the examinations of the Pharmaceutical Society, and a very damaging criticism of the manifesto might be made on this ground by anybody who felt himself injured by the statement. A minor objection might be made to the use of the term "pharmacist" in Clause 3 in such a way as may lead ignorant readers to suppose that "pharmacist" is not there exactly equivalent to "chemist." The R.P.U. cannot, in fact, be congratulated upon the way in which it uses these titles without explaining either.

### The Policy

of replying at all to this attack is somewhat roughly questioned by Mr. Humphrey in the current number of "The Script." Fancy (he says in effect) a chartered body of eighty years' standing insisting on the fact that its members know the difference between eight ounces and the capacity of the eight-ounce bottle of commerce, and are careful, in spite of this difference, to dispense accurately—at least as a general rule! He compares the action of the Society in repelling the charge of inaccuracy to that of the old-fashioned chemist who inscribes upon his dispensing screen the legend "Prescriptions Carefully Dispensed," upon which he vents his humour as a piece of absurdity in a man professedly trained for that purpose. Absurd it may be, but it is not less so than to compare it with Mr. Neathercoat's reply to Dr. Trotter. To advertise one's competence after it has been certified by a legally constituted authority is one thing, to affirm it when challenged by a public official is another. This is not a case of mere mud-slinging by irresponsible persons; it has led to that, but the initiative was taken in a quarter whose opinion we cannot afford to ignore, and in a manner that demands a public protest. The *mens conscia recti* attitude is all very well in one who can afford to despise public opinion, but that is not the case with us, and it would be ridiculously out of place in anyone whose conduct was impugned by those to whom he was responsible. The Bermondsey prosecutions reported since the above was written are a sufficient answer to Mr. Humphrey. They show, indeed, that the charges made against us are not entirely baseless, but they also show the need of demonstrating the fact that such cases of inaccuracy are exceptional.

### Your Proposed Pamphlet

covers the ground so completely and states the essential facts so cogently that I, though nothing if not critical, see nothing to add and nothing

material to amend. The inclusion of nitre among the drugs mentioned in the Bible, though literally correct, might be objected to on the ground that the substance referred to is not what we now call nitre but natron, or native carbonate of soda, but this small technical point is the only one that occurs to me as liable to misconstruction. On the need of some such statement for general distribution I have already spoken, and a better one than this it is difficult to conceive. It is judicial in tone, and avoids everything of a controversial nature; above all, it is really interesting and informative, which, as I said recently, is the chief thing to aim at in propaganda of any kind.

### The London Chemists' Golfing Society

may well be proud (as their dinner card proves them to be) of having defeated "Scotland" (say, rather, a Scottish team) at the Scottish national game, as golf may be called. Time was, and it is not so long ago, when golf was practically unknown in England. In my youth I never heard of it, much less saw it except at Hoylake, where a number of Liverpool Scots used to play; and I have frequently followed them about wondering what the dickens they were after. I have been told, too, that there was a golf course at Blackheath at about the same time, probably, I should say, for the use of Scots. And now we are beginning to beat them at their own game—we, many of whom do not yet know even how to pronounce the word "golf." Usually, if my golfing friends are fair specimens, Englishmen sound the "l," which Scots rarely, if ever, do. They call the game "goff" or, perhaps more familiarly, "gowff," in accordance with the oldest spelling, which seems to have varied from "gowff" to "goiff." The O.E.D. says that "goff" is an English attempt at the true Scotch pronunciation, but I venture to think this questionable. Andrew Lang rhymes the word with scoff:—

"And if the 'Like' and 'Odd' we sh-out,  
Till swains and maidens scoff;  
The fact is Cricket's been bowled out  
By that eternal Golf!"

### Mr. Atkin's Objection

to the term "retail pharmacist" is a mere quibble. We are pharmacists, and we are retailers, and only such pharmacists as are retailers are eligible for membership of our Union. It is no doubt regrettable that such a "vile phrase" as "retail" should come between the wind and Mr. Atkin's nobility, but there is, so far as I can see, no other title than "retail pharmacists" by which to distinguish ourselves from wholesalers. A good deal of our business as pharmacists is in the strictest sense retail; we retail poisons, for instance; and though Mr. Atkin may consider it an injustice to be obliged to eke out his living by retailing such things as castor oil or Epsom salts, this is precisely the function for which the chemist and druggist first came into existence, and by which many of us continue to exist. Let us have the honesty to call a spade a spade.

### The Refusal

to renew a wine licence that has been held for twenty years, asked for by a large number of people in the neighbourhood, and to which the police make no objection, is an arbitrary and unjust act, nor is the case much better if the licence is renewed conditionally upon only medicated wines being sold. A licence is rarely worth having on those terms, and my experience is that medicated wines are not much in demand where pure wines can be got, and the inference I draw—well, I had, perhaps, better keep that to myself. It is an anomaly that a bench of magistrates, every one of whom is a sworn teetotaler, is allowed to adjudicate in these cases, while a man who professes a conscientious objection to capital punishment is excused from jury service in a trial for murder. In saying this I have a case in which I was personally interested in mind. Men who profess to hold that "alcohol is the devil" are not likely to consider applications for renewal in a very judicial spirit.





**Price Lists  
of  
Pills &  
Tablets  
on  
application.**

**COX**  
BRIGHTON

Established 1839.

### PATENTS AND TRADE MARKS.

There are many worrying difficulties to be overcome in connection with the Registration of Trade Marks and the grant of Letters Patent which members of the Retail and Wholesale Drug Trade can avoid by consulting efficient agents who would undertake all the trouble for an inclusive fee and obtain protection in the United Kingdom and abroad. Advice in the first instance free. Pamphlets gratis.

56 Ludgate Hill, London, E.C. 4. **RECINALD W. BARKER & CO.**

**You can have window displays,  
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We are out to help you sell **HARPIC**. Our ads reach over 25,000,000 every issue.  
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**FINEST ESSENTIAL OILS**  
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**MUSK, CIVET AND AMBERGRIS  
OTTO OF ROSE  
"LAVENDER EXQUISIA"**

Agency and Depot for the renowned  
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**OILS OF  
LEMON, ORANGE, BERGAMOT,  
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*Terpeneless and Sesquiterpeneless Oils*

**W. H. HOBBS & CO., LTD.**  
TRINITY PLACE, LONDON, E.C. 3.

**S.V.R.—Absolute Alcohol**

AND

**CHEMISTS' WINES.**

**Jas. Burrough Ltd.** D. 1 Cale Distillery, Hutton Rd. LAMBETH, S.E. 11.

## Editorial Articles

### "Dangerous" Drugs Legislation

THE "London Gazette" of March 16 contains a notice that amending Regulations made under the Dangerous

Drugs Act, 1920, are in force. These Regulations, which were printed in the *C. & D.*, January 20, p. 93, and in the "Gazette" bear the date March 10, so that before chemists know about it the Regulations will

have been in force for a fortnight. This is an example of the loose manner in which these Regulations are produced, and we are glad to see that the attention of Parliament has been called to the matter. As reported elsewhere in this issue, Dr. Chapple raised the question in the House of Commons, but his remarks refer to the Regulations that came in force last October (*C. & D.*, October 14, p. 534), when we complained of the lax manner in which the Regulations had been promulgated. It is to be hoped that now the House of Commons has had its attention called to the bureaucratic actions of the Home Office, some curb may be placed upon the civil servants concerned. The Regulations now in force differ from those printed in the *C. & D.*, January 20, p. 93, and are therefore printed again in this issue (p. 409). The chief changes in the Regulations which concern chemists are as follows:—

**Signing Prescriptions.**—Instead of requiring the full Christian and surnames of the doctor, etc., on prescriptions for "dangerous" drugs in future, "his usual signature" will suffice.

**Genuineness of Prescriptions.**—The dispenser is to take "reasonably sufficient steps" to satisfy himself that the prescription is genuine.

The first of these items ends a great source of trouble to chemists and of suffering to sick persons. The second adds still another crime which chemists may commit. What is meant by "reasonably sufficient steps" to satisfy the dispenser that the prescription is genuine, we cannot say. It will probably lead to a good deal of trouble in cases in which a patient has consulted a London practitioner and taken the prescription to a chemist in the country. As it is, there are complaints that owing to the savage penalties of the Dangerous Drugs Act chemists are refusing to supply "dangerous" drugs to doctors or dispense prescriptions containing "dangerous" drugs. There is some mystery about paragraph 1 of the amending Regulations; this is the same as one of the amending Regulations made on October 2. Perhaps there is more in Dr. Chapple's protest in the House of Commons than we had thought, and this repetition is meant to ensure the legality of a recent prosecution. There is little to report in regard to the Dangerous Drugs and Poisons (Amendment) Bill. The Bill is to be considered by Standing Committee B on March 27, and as the House rises for the Easter recess on March 29 there can be little progress made with the Bill for some time. This delay gives chemists an opportunity, should they so desire, of communicating with their Members of Parliament regarding some of the anomalies of the



Bill. The medical profession, which, unlike the pharmaceutical profession, is well represented in the House of Commons, are taking steps to obtain an amendment of Clause 3, which seeks to restrict the sale of "dangerous," and perhaps other statutory poisons, to medical men in actual practice. The "British Medical Journal" points out that if this clause is allowed to stand in its present form some six thousand registered practitioners will be unable, without considerable difficulty, to obtain scheduled poison from a chemist in an emergency.

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### The Sale of Medicated Wines

WITH every disposition to make allowance for the inevitable upsetting of the national mentality which the events of the recent war might be expected to bring about, we still cannot help feeling astonishment at some of the aberrations of human thought and action which we hear of from time to time. At the recent licensing sessions up and down the country a formidable body of organised opinion has been directed to doing away with the wine licences which are so generally held by chemists, the ground of opposition to the licence being apparently that under it a liquid may be sold which contains amongst its ingredients alcohol. This, it appears, is enough to make the article sold under the licence taboo to the devotees of this creed. The fact that the liquid commonly contains sufficient medicaments to place it outside the category of alcoholic beverages from the standpoint of ordinary licensing law does not appear to weigh with those who denounce it. Indeed, one might think from what is said that the medicaments are added on purpose to make the alcohol more attractive, and therefore, from their point of view, more dangerous. The ignorance which those who attack the sale of medicated wines have of the subject they treat about can be illustrated by the report which we cull from a newspaper of a speech made by a speaker at a meeting recently held to advocate the abolition of these wine licences. He "called upon the Government to withdraw immediately all licences that were issued for the sale of medicated wines. He said these mixtures had not the support of any responsible member or publication of the medical profession. They had a higher percentage of alcohol than any wine, and they were not what they seemed to be, and they were the means of starting many people on the path to degradation. The physician who recommended these wines to anyone had no very clear idea of what the outcome might be." We quote the remarks in full so that it may be seen to what a degree of folly an educated man can go when he touches upon a subject which he has not impartially studied, and who is dominated by a preconceived fixed idea. But the fact that such nonsense could be uttered and could pass without question at a public meeting is just that which chemists who are holders of wine licences would do well to note. An audience, consisting it may be presumed of Parliamentary electors, who could listen to assertions of this kind, some of them at least palpably false, without asking for a title of evidence to support the statements, is clearly a body which would be capable, under the domination of some pet whim, of supporting any legislative proposal which promised to effect their cherished social reform. Chemists and medical practitioners do not need to be told how useful a wine may be for conveying into the human system a medicament which the particular patient could not otherwise take, or, at all events, could not without the wine assimilate. We will not affront their sense of propriety by adopting the suggestion that these wines are not sold with the conviction that they will

benefit those for whose use they are intended. The question at issue, therefore, between those who sell the wines and those who denounce their sale and use narrows itself down to one of who are best capable in the nature of things of determining whether or not the wines are beneficial—those whose business it is to be acquainted with their nature, or those who on principle profess themselves horrified at the very idea of approaching them. When the normal mentality of the nation has returned we have no doubt as to how such a question will be answered. In the meantime chemists would do well to be on their guard, as well for their own as for the interests of the public.

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### The Recovery in Mercury

THE position of mercury has once again become very interesting. In our Trade Report last week, when we recorded a substantial advance in the price, we were able to state the main reason for this sudden development, which arose from a change of front on the part of the Council of Administration of the Almaden mines, owned by the Spanish Government. Their price, which had been severely "cut" with the turn of the year to something equivalent to £10 per bottle, delivered at the mines—probably in order to meet competition by Italian producers—was lately put up to the equivalent of about £11 10s., delivered at the mines. This action was almost as unexpected as the previous one, incidental to the cut to £10 per bottle, and it was quickly reflected in the state of the market last week. It cannot be said that there has been any material expansion of business, although the demand has certainly been to some extent stimulated, and there is reason to believe that the stability of the market has been fairly well restored. It remains to be seen, however, to what extent the world's outlet will develop. Presumably there is room for some expansion of activity in mercury, as has been the case in most other metals, while active industrial conditions in the United States will doubtless call for increased imports henceforth from the European side. Market possibilities ever since the new *régime* was established after the cessation of the working agreement between the Spanish Government and the Rothschild interests have been more difficult to gauge. This tended to weaken this country's imports further in the past year, for which the returns were the lowest seen for a very long time, or merely representing about one-third of the incomings of pre-war years. This will be seen from the tabulated returns we give below for the years 1914 to 1922 inclusive, with the extreme prices touched in each year. The re-exports also dropped almost year after year with the exception of 1919, while the proportion of the quantities retained for home use has been more or less reduced. The net imports for last year were more especially small, thus clearly reflecting the policy of the Spanish mines to market their output themselves instead of having large consignments made to London and stocks retained here for disposal as under the late agreement. A lot has been written in the last year or two in regard to the attempts which have been made on the Spanish side to bring about some selling combination with Italian producers, whose competition has become of greater magnitude. However, it looks as though there is little chance of such combination taking place, so that competition between the two countries will go on. We made ample reference to the circumstances under which the market was disturbed at the beginning of this year, in our issue of January 6 (pp. 30-31). There was then a sharp collapse from the level of prices of about £12 5s., due to the cut in the Spanish price. Then, again, under date of January 20,



when the price was at around £11 per bottle, we suggested that further weakness was inevitable in consequence of the fact that dealers in this market were caught by surprise by the cut made by the Spanish mines. Mercury, which had been acquired late last year at comparatively high prices was gradually liquidated at notable losses, and Italian competition having also been very keen, the price dropped to a little below £10 per bottle towards the end of last month. During that month arrivals from the Continent were considerably larger, amounting to 5,665 bottles, against which, however, 3,392 bottles were re-exported. The following particulars for the last nine years reveals remarkable ups and downs in the market history of mercury:—

	U.K. Imports in bottles	Re-exports in bottles	London Spot Price.	
			Highest	Lowest
			£ s. d.	£ s. d.
1914 .. ..	37,569	22,990	11 5 0	6 10 0
1915 .. ..	40,579	13,020	18 5 0	11 5 0
1916 .. ..	34,043	20,331	18 15 0	16 12 6
1917 .. ..	28,966	5,790	25 0 0	18 10 0
1918 .. ..	14,774	11,200	25 0 0	20 0 0
1919 .. ..	37,898	45,846	24 10 0	15 10 0
1920 .. ..	35,760	19,364	27 0 0	12 0 0
1921 .. ..	21,874	16,979	12 15 0	9 10 0
1922 .. ..	18,735	15,965	13 7 6	10 7 6

Whereas the net imports for 1920 amounted to 16,396 bottles, those for the next two years were only 4,895 bottles and 2,770 bottles respectively. Of course, the liquidation of the large stock of Spanish which existed here in the earlier part of the past year largely made up for the absurdly small net imports in that year. It will be seen from the following returns for the last two months with comparisons for the same period in the previous two years, that our net imports have assumed something more approaching pre-war dimensions. This may be regarded as evidence of a better consumption, inasmuch as present stocks are believed to be exceedingly light:—

	1921	1922	1923
U.K. Imports, Jan.-Feb. (btls.)	257	2,808	7,472
Re-exports " "	1,829	932	4,264
Net Imports " "	1,572	1,876	3,208
	(excess of exports)		

In our issue of January 27 we drew attention to the recovery in the Spanish production, which for the three months to November 30 last represented a monthly average of 2,500 bottles, or an increase of nearly 400 bottles, compared with the monthly average for the first half of the year. The production for 1922 was probably well over 27,000 bottles, and it may be assumed that it has further developed since, and should now be proceeding on more normal dimensions, or at the rate of about 35,000 bottles. It can therefore only be surmised that the more aggressive policy pursued by the Spanish mines is due to the fact that Italian producers are reported to be well sold up and apparently for the moment practically keeping out of the market. America, of course, is usually a large consumer and her absorbing capacity should reassert itself on a more important scale than has been the case for some considerable time past, seeing that her own output is hopelessly kept down, not only by the more or less exhausted state of her mines compared to what they used to be, but also by the fact that the domestic price will yet have to advance a good deal in order to facilitate the resumption of operations in the considerable number of old mines with

low-grade ore that have been idle for a long while. At a higher level of prices and under the assistance of the stiff import duty enforced some time ago, representing about £3 per bottle, the American production should be susceptible of some improvement, but this will take time, and provided the domestic price becomes sufficiently attractive. America apparently had good reserve stocks for some time past, which were to a large extent secured from Italy, while her importations in that direction were to a degree facilitated by the abnormal rate of exchange. Judging from the recent reappearance of American inquiries on this side and the purchases which have resulted, it is probable that her surplus has been reduced and that the demand will assume more importance from that quarter.

### Dermatitis from Fur

SOME time ago attention was drawn to cases of severe irritation of the skin of the neck and face which was traced to contact with dyed fur garments. There is now quite an epidemic of "fur dermatitis" among outpatients of the London hospitals. Dr. Henry C. Semon summarises the matter in the "British Medical Journal" as follows:—

Except for degree of reaction, the type of dermatitis has not varied, and the patients mostly entered the department with its etiology on their shoulders. The eruption was limited to the lateral aspects of the neck and to the chin, but in one case the mucous membrane of the lips was dry and cracked, and in another, after three months of facial involvement, the reaction had spread to the forearms. A greater or less degree of oedema of the eyelids was, or had been, present in all the cases. This is a common and well recognised symptom of dermatitis artefacta from the use of hair dyes. The eruption consisted of a blotchy erythema, limited in the early cases to the lateral aspects of the neck and face, but spreading thence, in cases of over a month's duration, to the whole of these areas, and resulting in considerable oedema and disfigurement. The later cases showed pronounced infiltration, with a tendency to vesiculation and "weeping." Itching and burning were complained of in a degree transcending the clinical manifestations, and in one case had prevented sleep for several nights. The diagnosis from seborrhoeic dermatitis—the only dermatosis at all resembling it—rested on the localisation, the absence of scalp involvement, and the history. In every case the direct association by contact of the fur collar with the neck and chin could be demonstrated, and none of the patients had ever suffered from "eczema" antecedent to their purchase of the coat. Further support to the diagnosis was obtained in two cases by applying a scrap of the fur under strapping plaster (and against a control) to the anterior aspect of the thigh. Erythema occurred in both subjects of the experiment where the fur was applied within twenty-four hours of the application. The coats responsible all had fur collars of a dark flat variety, of very poor quality, and known to the trade as "dyed coney." It is probably rabbit fur dyed by one of the paraphenylenediamine group of textile dyes. A sample has been submitted to expert investigation, and an attempt to trace the place of manufacture will be made.

We understand that at one of the chief London hospitals a considerable amount of work has been done in determining the reason why a dye which cannot be washed out from the fur affects the skin in the manner complained of. An interesting conclusion has been arrived at which is to be made public. The Ministry of Health are also to issue a warning circular regarding dyed fur.

THE DRUG-HABIT.—I believe it is the considered opinion of medical experts that the drug addict is a psychopath before ever he becomes addicted; that the ordinary normal man is as unlikely, with every facility at hand, to become an addict of morphine or cocaine as he is to become a drunkard. These people take to narcotics just as they do most other things which are foolish and wrong; addiction is a symptom of a disordered mind, and simple custodial care with the withdrawal of the drug is no cure.—Professor W. E. Dixon in "The Times."



## Chemical Society

At the meeting of the Chemical Society held in Burlington House on March 15; Professor T. M. Lowry, F.R.S., in the chair, five papers were read. *The oxime of mesoxamide (isonitrosomalonomide) and some allied compounds. Part III. Ring formation in the tetra-substituted series*, was the title of the paper presented by Dr. E. H. Usherwood (in collaboration with Dr. M. A. Whiteley), of which she gave a *résumé*, illustrated by numerous slides, showing the behaviour of the double bond oxygen in compounds belonging to this series on oxydation, hydrolysis and reduction. Mr. H. H. Morgan, in a communication on *The preparation and stability of cuprous nitrate and other cuprous salts in the presence of nitriles*, related his observations on the behaviour of these compounds in acetonitrile. If a copper salt is added to a solution of silver nitrate in this solvent, the silver is replaced by copper, and after a time a green precipitate deposits. By the addition of potassium iodide to the solution of silver nitrate in acetonitrile, cuprous iodide and potassium nitrate are obtained, and by this method it is possible to prepare similarly other cuprous salts. In the presence of acetonitrile copper behaves as a stable monovalent element. The author proceeded to describe the precautions taken to obtain free cuprous nitrate by excluding, as far as possible, all contact with air; however, these attempts proved unsuccessful, cuprous nitrate being incapable of existing in a free state. On evaporating the solution containing this compound, colourless crystals are obtained, which, on contact with air turn green as a result of the formation of a basic nitrate. By using succinum nitrile in the place of acetonitrile. Mr. Morgan succeeded in obtaining cuprous nitrate in the same way as described in his previous tests, and found that the resulting salt was more stable in air than that obtained when using acetonitrile as the solvent. Dr. F. Challenger (with Messrs. A. L. Smith and F. J. Paton) read a paper on *The interaction of hydrogen sulphide, thiocyanogen and thiocyanic acid with unsaturated compounds*. In the course of some experiments the authors found that hydrogen sulphide could be added to certain terpene compounds, as is the case with carvone, the production of carvone hydrosulphide being used as a means of obtaining carvone from caraway oil. The formula of the resulting terpene compounds, based on the theories of Wallach, and Harries and Stirm, and the assumption of the presence of a sulphur bridge in these compounds, was discussed. It was established that only a few unsaturated compounds react with hydrogen sulphide, a point which induced the authors to investigate the behaviour of thiocyanogen with such compounds. They found that thiocyanogen, NCS—SCN, behaves in many respects similarly to iodine; it can be directly added to unsaturated compounds, and exhibits numerous analogies with the halogens, which were discussed, as well as its reactions with various compounds. Professor R. Robinson (with Mr. D. D. Pratt) gave a brief *résumé* of his communication on *A direct synthesis of certain xanthylum derivatives*, in which he referred to attempts made to effect condensation of formic acid and a ketone, and then discussed briefly the structure of xanthylum salts. In his paper on *The polarity of double bonds*, Professor T. M. Lowry gave an exhaustive exposition of his views on this subject, illustrated by numerous slides of structural formulas of various compounds in explanation of his assumptions. The theory of mixed double bonds is advanced as a means of throwing light on a number of phenomena in organic chemistry. The reactivity of double bonds becomes more explicable if we distinguish between co-valency and electro-valency. Professor Lowry discussed the distribution of electro-valencies in various compounds, showing how the double bond, as written in the conventional formula, disappears when this method of rendering the composition of the compound in question is adopted. In connection with the fact that in aromatic compounds the hydrogen atoms are neutral, and also the radicles, while the carbon atoms of the ring are alternately positive and negative, the polarity distribution of a number of compounds was discussed with the aid of slides. Tautomerism, the author stated, depends on the presence of bipolar, or even tripolar, ions.

## Dangerous Drugs Act, 1920

From the "London Gazette," March 16.

The Dangerous Drugs Regulations, 1923, dated 10th March, 1923, made by the Secretary of State under Section 7 of the Dangerous Drugs Act, 1920, (a) for Controlling the Manufacture, Sale, Possession, and Distribution of Dangerous Drugs.

In pursuance of Section 7 of the Dangerous Drugs Act, 1920, (a) I hereby make the following Regulations amending the Dangerous Drugs Regulations, 1921, (b) hereinafter referred to as the Principal Regulations.

1. Regulation 3 of the Principal Regulations shall be amended and shall take effect as if at the end of paragraph (a), after the words "the drug," were inserted the words "or (but so far only as regards procuring the drug) unless he is licensed to procure the drug."

(2. Regulation 5 of the Principal Regulations shall be amended and shall take effect as if the words "his usual signature" were substituted for the words "his full name."

3. Regulation 6 of the Principal Regulations shall be amended and shall take effect as if at the end of paragraph (a) were inserted the following words:—

"If an official form is not prescribed, a prescription for any of the drugs shall only be dispensed if the person dispensing the prescription is acquainted with the signature of the medical practitioner, registered dentist, or registered veterinary surgeon, by whom the prescription purports to be given, and has no reason to suppose that the prescription is not genuine; or if he has taken reasonably sufficient steps to satisfy himself that the prescription is genuine."

4. The following Regulation shall be inserted at the end of the Principal Regulations:—

20. Copies of the Regulations printed under the authority of His Majesty's Stationery Office may be printed with any additions, omissions, or substitutions directed to be made by any future Regulations, and with the signature and date omitted, and the Regulations so printed may be referred to as the Dangerous Drugs Regulations.

5. These Regulations may be referred to as the Dangerous Drugs Regulations, 1923.

W. C. BRIDGEMAN,  
One of His Majesty's Principal  
Secretaries of State.

Home Office, Whitehall.

March 10, 1923.

(a) 10-11 Geo. 5, c. 46. (b) S.R. & O., 1921, No. 865.

The Raw Opium Regulations, 1923, dated March 10, 1923, made by the Secretary of State under Section 3 of the Dangerous Drugs Act, 1920, (a) for Controlling the Manufacture, Sale, Possession, and Distribution of Raw Opium.

In pursuance of Section 3 of the Dangerous Drugs Act, 1920, (a) I hereby make the following Regulations amending the Raw Opium Regulations, 1921, (b) hereinafter referred to as the Principal Regulations.

1. Regulation 1 of the Principal Regulations shall be amended and shall take effect as if at the end of paragraph (a), after the words "raw opium," were inserted the words "or (but so far only as regards procuring raw opium) unless he is licensed by the Secretary of State to procure raw opium."

2. The following Regulation shall be inserted at the end of the Principal Regulations:—

11. Copies of the Regulations printed under the authority of His Majesty's Stationery Office may be printed with any additions, omissions, or substitutions directed to be made by any future Regulations, and with the signature and date omitted, and the Regulations so printed may be referred to as the Raw Opium Regulations.

3. These Regulations may be referred to as the Raw Opium Regulations, 1923.

W. C. BRIDGEMAN,  
One of His Majesty's Principal  
Secretaries of State.

Home Office, Whitehall.

March 10, 1923.

(a) 10 & 11 Geo. 5, c. 46. (b) S.R. & O., 1921, No. 864.

"BEECHAM'S PILLS paid a thousand pounds in advertising for every pound that was spent in the same way by Beecham's Opera, but while I have read thousands of columns of print on the operas, I have never yet found a line in the news-pages about the pills."—"R.C.R." in "The Birmingham Post."



## Festivities

### Hull Chemists' Whist-drive

THE Hull Chemists' Association held a successful whist-drive in the City Hotel, Hull, on March 8. There were about 200 present. Prizes, given by various wholesale houses, were won by:—*Ladies*: Mrs. Hutchinson, Miss Hudson, Mrs. Pool, Mrs. Brown, Miss Ashton, Miss Blake, Mrs. Jackson. *Gentlemen*: Mr. Jackson, Mr. Oxtoby, Mr. Dewey, Mr. J. C. Mallory, Mr. Thompson, Mr. Harrison. Refreshments were served at the interval. The prizes were presented to the winners by Mrs. Bennett, wife of the President.

### James Woolley's Whist-drive

AN enjoyable whist-drive was held recently by the staff and friends of James Woolley, Sons & Co., Ltd., in connection with the Three Arrows Cricket Club, an old-established social institution of the house. The party numbered 110, and the duties of M.C. were carried out by Lieutenant-Colonel Watson, Mr. Jacques, and Mr. Hedley. The prizes were presented by Mrs. E. J. Woolley to:—*Ladies*: Miss D. Neale, Miss K. Judge and Miss E. Ormrod. *Gentlemen*: Mr. A. S. Kirby, Mr. J. Mack and Mr. T. Brown.

### Glasgow Chemists' Whist-drive

THE annual whist-drive and dance of the Glasgow Pharmacy Club was held on March 13. There was a large attendance of members and friends. About 150 players took part in the game of whist for prizes, given by Thomlinson, Ltd., Partick. Messrs. Arthur and Soddy directed the game. Afterwards the company spent a few hours in dancing, Messrs. Duff and MacNicol acting as M.C.s. During the interval Mrs. H. P. Arthur presented the winners with their prizes. *Ladies*: Miss Jean Walker; Mrs. Grierson. *Gentlemen*: Mr. S. Wright; Mr. G. Stirling.

### A Burroughs Wellcome Concert

THE last of the winter series of social evenings, organised by the entertainment committee of Burroughs Wellcome & Co.'s head office staff, and held on March 16, took the form of a Bohemian concert at the Mecca Café in Ludgate Hill, London, E.C., under the chairmanship of the firm's general manager, Mr. G. E. Pearson. In a brief speech, acknowledging a vote of thanks, Mr. Pearson bore tribute to the value of the social evenings in fostering that *esprit de corps* which had been valuable in assisting to maintain the firm's position during the difficult period following the war.

### Social Evening at Lancaster

THE Lancaster Pharmacists' Association promoted an enjoyable social evening on March 7. Mr. R. T. Simpson (President) was absent through illness, but his place as host was taken by Mr. H. Troughton. About 60 friends attended, and a whist-drive proved interesting. The prizes were presented by Miss Simpson to:—*Ladies*: Miss M. Verity, Mrs. Smith, Miss R. Verity. *Gentlemen*: Messrs. Cathcart, E. H. Lambert, H. Lee, jun., H. J. Lee, Mr. A. H. Robertson was the M.C. A musical programme followed, the artists being Mrs. Lee, Miss Walker, Mrs. Pynn, Mr. A. H. Robertson, Mr. E. Ellis, Mr. McGee, and the "Cough Drops," Messrs. Lambert, Pilgrim, and Robertson, jun.—three apprentices—who were received with great applause. The function was voted a great success.

### Birkenhead Whist-drive

THE Birkenhead and Wirral Pharmacists' Association held their second whist-drive and dance of the session on March 8, a company of over 250 assembling for the evening. Whist commenced about 8 p.m. Mr. Grant (President) acting as M.C. Refreshments, the arrangements for which had been undertaken by the Ladies' Committee—Messdames Grant, Caine, Williamson, Edwards, Stockdale, and Pott—were served at the close of play, and the prizes were presented by Mrs. W. H. Saunders as follows:—*Ladies*: Mrs. E. G. Evans, Mrs. Bryning, Mrs. C. Gubbins, Mrs. Redfern, and Miss M. C. Brown. *Gentlemen*:

Mr. Spence, Mr. Mulholland, and Mrs. R. Shepherd. Surprise prizes were, in addition, awarded during the course of play. Dancing followed under the direction of Miss A. Lawis and R. Caine, the M.C.'s.

### Blackpool Chemists' Annual Dinner

THE annual dinner of the Blackpool and Fylde Pharmacists' Association, the first event of its kind since 1914, was held at the Palatine Hotel on March 7, Mr. O. Gillibrand (President) in the chair. Several toasts were honoured, and during the evening Mr. Hardy (chairman of the Retail Pharmacists' Union) spoke of the arduous training of the dispensing chemist. He pointed out that the pharmacists' trade organisation could show that out of 30,000,000 prescriptions dispensed last year only eleven gave rise to complaints of inaccuracy to headquarters. Mr. J. H. Taylor, J.P., proposed the toast of the medical profession. Dr. Barton, responding, said that the doctor and dispensing chemist had been evolved from one stock, and their duties were in each case special phases of the one healing art. Speaking to a later toast, Dr. Barton paid tribute to the valuable efforts of Mr. D. J. Bailey, chemist and druggist, between doctors and chemists. There were expressions of appreciation of the way the President, the secretary (Mr. J. Malley) and the committee had organised the successful evening.

## Safeguarding of Industries Act

### Corrections in List under Part I

In the *C. & D.*, of April 15, 1922 (p. 63), we published a number of corrections in the lists of articles chargeable with duty under Part I. of the Safeguarding of Industries Act. A further list of corrections has now been issued, and among those of interest to the chemical trade are the following:—

Page in Printed List	
8 ...	For "measures, cylindrical" read "measures, cylindrical, conical, etc."
16 ...	For "added to the names of chemicals" read "added to the names of organic chemicals."
17 ...	Delete acid boric.
18 ...	Delete acid citric.
18 ...	Insert acid gallic.
20 ...	Delete acid tartaric.
32 ...	Delete calcium phosphate.
32 ...	For "R calcium phosphate" read "R calcium phosphates (other than R calcium biphosphate)."
32 ...	Insert prefix R before "calcium tartrate."
32 ...	Delete camphor (synthetic). Insert Kompa's synthetic camphor.
35 ...	Insert prefix R before "copper iodide."
35 ...	Insert prefix R before "copper oxide."
36 ...	Delete "cream of tartar."
43 ...	Insert prefix R before "hæmatein."
43 ...	Insert prefix R before "hæmoglobin."
45 ...	Insert prefix R before "iron bromide."
47 ...	Delete R lactose.
50 ...	Insert prefix R before "menthol."
52 ...	Delete comma between "methylene" and "blue."
56 ...	For "phenetidine, amidacetyl hydrochlorate" read "phenetidine amidoacetyl hydrochlorate."
58 ...	Delete potassium bitartrate.
59 ...	Insert prefix R before "potassium chlorate."
63 ...	Delete santonin.
64 ...	Insert prefix R before "nickel oxide."
65 ...	For "R sodium hyposulphite" read "sodium hyposulphite (photographic quality)."
65 ...	Insert prefix R before "sodium phosphate-tri."
66 ...	For "R sodium thiosulphate" read "sodium thiosulphate (photographic quality)."
69 ...	Insert "mechanical aggregates of oxide of thorium and oxide of cerium and of nitrate of thorium and nitrate of cerium being ingredients of incandescent gas mantles."

CANADIAN HONEY.—The formation of a co-operative honey marketing organisation for Ontario has been definitely decided upon. The company will be incorporated as the Ontario Honey Producers' Co-operative Society.



## Westminster Wisdom

By the "C. and D." Parliamentary Representative

### Dangerous Drugs Act Regulations

On March 19, Dr. Chapple, in the House of Commons, raised a point of order which he said is of considerable importance, as it involves an encroachment upon the rights and privileges of the House. The late Home Secretary issued a draft Regulation amending the Dangerous Drugs Act of 1920. He issued it on August 3, and the 40 days under the Rules Publication Act expired on September 12. That Regulation has had practically the force of law ever since, so that nearly six months have elapsed, during which time a Regulation issued by the Home Secretary on August 3 has practically had the force of law. Section 5 of the Rules issued under the Dangerous Drugs Act, 1920, is to the effect that no practitioner can prescribe for himself any drugs mentioned in the Schedule, such as cocaine and morphine. Section 11 of the Dangerous Drugs Act requires that any Regulations under that Act shall be laid forthwith, but this Regulation was not laid until March 1. Therefore, a law has been made practically by the Department and has not been ratified by this House. It ought to have been laid on September 12 last, but it was not laid until March 1. He wished to know whether that is not an irregularity and whether the Regulations ought not to be withdrawn? At present it appears that the Home Department can issue Regulations and allow any time whatever to elapse, during which time the Regulations have the validity of law. Is it an irregularity with which you can deal?

Major Molson associated himself with the remarks of the last speaker. The British Medical Association protested last July against this Order. The Order has been carried into force without the consent, authority or knowledge of this House. It limits the power of duly-qualified medical practitioners to prescribe for themselves. He considered that that has been done without the authority of the House and in an irregular way.

The Speaker: It is not for me to say whether the action of the Department has been legal or not. This does not appear to me to be a point of order, but a point of law. If any irregular action has been taken by the Ministry, then he imagined that anyone who has been harmed by such action, has the Courts of Law open to him. There is no point of order. If the Regulations were laid on a certain date, during the present Session of Parliament, the number of days dates from that time. What happened in the interval may be a legal question, but it is not a point of order on which he could express an opinion.

### STANDARDISATION OF SERUMS

Mr. Chamberlain, asked, on March 19, as to who paid the expenses of the conferences on the standardisation of serums held in London in December 1921, and in Paris in November 1922, said these, which consisted mainly of the travelling and subsistence allowance of the delegates, were met from the funds of the League of Nations. No fees or other remuneration were paid to delegates by the British Government. He was not aware that any expense was incurred from public funds beyond the cost of luncheon for the foreign delegates provided by the Government Hospitality Fund on the occasion of the conference in London.

### INSURANCE DRUG SUPPLY

Sir W. Sugden, on March 14, asked the Minister of Health what steps are being taken to ensure fit and proper medicines being supplied to panel patients where the price of such medicines is higher than the sums allowed in the contract.

Mr. Chamberlain replied that the hon. member is under a misapprehension. The cost of the medicines to which persons insured under the National Health Insurance Acts are entitled are not subject to any such limit as is suggested in the question. Insurance practitioners are required to order for their patients such medicines as are required for their proper treatment without limit of price, though it has been found necessary to take certain precautions against extravagance in prescribing.

On the same day, Mr. Robert Richardson asked the Minister of Health if he is aware that the Medical Sub-Committee of the Durham County National Health Insurance Committee have recently fined medical practitioners on the panel for alleged excess in the cost of drugs given to panel patients, asserting that drugs of a less expensive character should have been given and that medicine should have been ordered to have been given at greater intervals; and will he have inquiries made into this with a view to the proper treatment of those suffering from ill-health.

Mr. Chamberlain replied that withholding of remuneration on the ground of excessive prescribing is settled not by a Sub-Committee, but by the Insurance Committee itself, who receive independent medical advice from the Panel Committee. He had not yet received the reports of the particular cases to which the member referred, but he had no jurisdiction to review the Insurance Committee's decisions unless the doctors concerned exercise their right of appeal to him. There must be some safeguard against extravagance in prescribing, but the present arrangements are not working well and are under revision.

## Brompton Lozenges

The original formula for these was:—

Ext. glycyrrh.	...	...	gr. iii.
Ol. anisi.	...	...	m.ss.
Mass. troch. acac.	...	...	gr. x.

the formula for mass. troc. acac. being:—

Acac. gum	...	...	gr. xii.
Sacch. alb.	...	...	gr. vi.
Tragac.	...	...	gr. iss.
Aq. ros.	...	...	q.s.

The lozenge of this formula is brown and, as it contains an exceptionally large percentage of gum, it possesses to a high degree the two essential pharmaceutical characteristics of a cough lozenge which depends for its effect on its local action on the mucous membrane—viz.: (1) It keeps firm and hard on exposure during storage; and (2) it dissolves smoothly and very slowly in the mouth, thus giving a prolonged local action. The usual works of reference give a correct formula for the liquorice and anise, but are somewhat vague as to the basis on which the time of action depends. Squire gives the correct amount of basis, but no formula; Martindale mentions acacia basis, but neither formula nor quantity; "Pharmaceutical Formulas" gives "lozenge basis," 15 gr.; while the Codex orders the simple basis of the Pharmacopœia, about 16½ gr., chiefly sugar. Possibly to mask variations in colour, the early makers added a little charcoal (it is somewhat curious that no mention of this is made in the above works, although black colouring is now universally added), and this fictitious appearance of "strength" has doubtless had much to do with the present popularity of "Brompton Blacks," in spite of their unpleasant appearance in the mouth. The indefinite description of the basis in the above-mentioned works seems to have led manufacturers to regard as "Bromptons" anything containing liquorice, anise and black pigment. Some that I have examined seem to have been massed with glucose and gelatin, and I have found none dissolve as slowly as those of the original formula. This is particularly the case with the compressed-tablet type of Brompton; these dissolve irregularly and quickly and, moreover, tend to disintegrate, even during storage. The colouring matter is often an anilin black, and though they may be Bromptons, they can hardly be regarded as troch. glycyrrh. B.P.C., a popular Insurance prescription. It is to be regretted that lozenge-making is not more often undertaken in the pharmacy; it is profitable and interesting work for the apprentice, and the extra apparatus necessary can be easily made at home.

WM. A. KNIGHT, PH.C.

SOCIETY OF CHEMICAL INDUSTRY.—The annual meeting of the London Section will be held on May 7, and nominations for election of members of the committee should reach the secretary not later than March 30.



## Associations' Winter Session

**Ealing.**—A meeting of the Ealing Pharmacists' Association was held on March 13, when Mr. French, of the Retail Pharmacists' Union, gave an interesting account of what the Union is doing. A discussion followed.

**Edinburgh.**—The Edinburgh Chemists' Assistants' and Apprentices' Association met on March 16, Miss M. Grant Boag (Vice-President) in the chair. Mr. J. W. Laing contributed an interesting paper on *Radium and Radioactivity*, beginning with Henri Becquerel's observation on the power of uranium nitrate to affect a photographic plate. Madame Curie's discovery of radium was next outlined. Radium belongs to the barium, calcium strontium group and had been isolated as a greyish powder but it was more easily handled as a salt, usually as radium bromide. Originally radium was obtained chiefly from the pitchblende of the Joachimstal Mine in Austria, but now it was largely obtained from America. There was believed to be about 100 grams of radium now in stock in the whole world, or about three and a-half ounces, worth about 12,000,000 dollars, or twenty tons of gold. The discovery of Madam Curie and the phenomena of radioactivity changed the whole trend of scientific thought. Radioactivity involved three points: (1) The breaking up of the atom; (2) the energy expended in the disintegration; and (3) the slow, yet nevertheless certain, change of one element into another element. Radium can be looked upon as the member of a family of which uranium is a remote ancestor, and lead a remote descendant. The radium of to-day existed as uranium millions of years ago, and millions of years hence will exist as lead. It was the dream of the ancient alchemists to change copper and lead into gold and silver, but all their attempts were baffled. To-day we know Nature is silently carrying out the great transformation. To-day we know uranium is slowly changing into radium, and radium into lead, while thorium is the starting-point of an analogous change. The radioactivity of other elements may be unknown because we have no sufficiently delicate means of detecting it. It is believed that potassium is radioactive. The iron and copper regarded as the very embodiment of stability may be intermediate and transitory. The paper was illustrated by specimens of crystallised uranium nitrate and radium bromide. Mr. William Paterson gave an interesting and highly instructive paper on *Photography from the Chemist's Point of View*. He pointed out the value of a knowledge of photography to any qualified pharmacist seeking an appointment. After a discussion a vote of thanks was awarded to Messrs. Laing and Paterson.

**Grimsby.**—The annual meeting of the Grimsby Pharmacists' Association was held on March 5. Mr. E. Sigley was unanimously elected *President* for the ensuing year on the retirement of Mr. J. E. Chapman, who had held that office for two years. During Mr. Chapman's presidency the members had increased and the Association's financial position has improved. A vote of thanks was accorded to him for his services. The *Treasurer*, Mr. C. Dewing, and the *Secretary*, Mr. D. H. Appleby, were unanimously re-elected and thanked for their reports. An effort is being made to develop the social side of the Association.

**Glasgow.**—The annual meeting of the Literary and Scientific Section of the Glasgow Pharmacy Club was held at 165 Hill Street, Garnethill, on March 15. Mr. H. P. Arthur (Convener) presiding. Mr. W. J. Moffat, secretary of the section, read his report, after which the following office-bearers were appointed: *Chairman*, Mr. H. P. Arthur; *Secretary*, Mr. W. J. Moffat; *Committee*, Misses Ramsay and Macallister, Messrs. Todd, A. B. Gilmour and Pattison.

**Manchester.**—The monthly meeting of the Manchester Pharmaceutical Association was held on March 14, when Mr. E. T. Neathercoat, President of the Pharmaceutical Society, was present. Mr. E. H. Simmons, President of the Manchester Association, occupied the chair. There was a very good attendance of chemists from Manchester, Salford, Bolton, Oldham and neighbouring towns. Mr.

Neathercoat said he enjoyed coming to Manchester, because he was always sure of support from one of the most loyal bodies of chemists in the country. It had been asked why the Pharmaceutical Society wants to form branches; there were any amount of associations connected with pharmacy which seemed to be carrying on the work satisfactorily. They at headquarters always felt that the weak spot was many of the local associations did not embrace in their membership a sufficient number of all those who were connected with pharmacy. The idea underlying the formation of branches of the parent body was to "rope in" all those who were connected with pharmacy—master pharmacists, qualified managers, assistants and apprentices in chemists' shops; those in wholesale houses, hospitals and universities who were either members or student-associates of the Pharmaceutical Society. If the man was qualified he had the interest in his qualification, and the opportunity ought to be provided for him to meet his fellow-pharmacists in some local association. When any special effort or propaganda is necessary, then will these branches which had been formed prove most useful. One of the greatest mistakes in the past had been in not looking after the welfare of the young men in pharmacy. At the present time there were two Bills before Parliament dealing with the technical side of pharmacy, and the pity of it was that there was not a single member who could speak as a direct representative in pharmacy. In the scheme of branches the Pharmaceutical Society were partially subsidising the branches by 2s. 6d. per head, and they would want value for that money. He said in the Manchester area they would receive about £40 per annum. He alluded also to the forthcoming British Pharmaceutical Conference to be held in London, which would be attended by many delegates from abroad. The Preliminary examination was dealt with, and the educational policy of the Society was explained, the President outlining the steps taken in connection with the course of study for the degree in pharmacy at the London University. He said that Manchester was fortunate in having these courses of study already in existence. He was looking forward to the time when even if only one student took his degree in pharmacy from each of the Universities each year it would spell progress and would uplift the calling of pharmacy. In referring to the Dangerous Drugs Act, he said it was appalling to think of the proposals put forward in that Bill, and the Society had taken prompt action to secure necessary alterations. The Government must be made to see the fallacy of imposing such drastic penalties for what he might term technical offences. He did not condone any offence against the Regulations, but a pharmacist under severe pressure of business might, for instance, omit to enter a transaction in the register until some hours later, and might get caught in the meantime. It was quite a different matter where the offence was of a criminal nature. The President also had something to say regarding the recent Press campaign, and of the fact that a great number of pharmacists, although resenting the libellous nature of the statements in the lay Press, seemed to be inclined to look upon it as a nine days' wonder, and in his opinion the best interests of pharmacists will be served by letting the matter drop, and he hoped it would prove a lesson to pharmacists to put their house in order. Everything depends on the qualification. The Society was founded to defend that qualification. In times like the present all should work together and look upon the Society at headquarters as the trustees of pharmaceutical interests. A vote of thanks was proposed by Mr. William Kirkby, M.Sc., and seconded by Mr. Blain, Bolton.

**Perth.**—A meeting of the Perthshire Pharmacists' Association was held on March 15, when Mr. J. B. MacDonald (President) occupied the chair. Among other business discussed was the Local Organisation Scheme adopted by the Council of the Pharmaceutical Society for the establishment of local branches throughout Scotland, which Mr. J. J. Forbes explained fully to the meeting. Disapproval was expressed that the Society had not consulted its members regarding such an important scheme. After a full discussion on the Retail



Pharmacists' Union "National Propaganda," regarding functions of the chemist, the following resolution was unanimously carried:—

The Perthshire Pharmacists' Association views with alarm the advertising propaganda undertaken by the Retail Pharmacists' Union dealing with the professional side of Pharmacy. This, in their opinion, has no reference to a condition of affairs existing in Scotland, and should not have been issued in Scotland without the knowledge and consent of the North British Executive. It seems reprehensible that any action in this matter should have been taken by any body other than the Pharmaceutical Society. The considered opinion of this Association is that these circulars should not be made use of, and members have been advised accordingly.

After further routine business Mr. MacDonald was thanked for his services in the chair.

**Peterborough.**—The annual meeting of the Peterborough and District Association of Pharmacists was held at Peterborough on March 8, when a satisfactory report in regard to work and finances was received. Mr. J. W. Ailsby, Whittlesea, was elected *President* for the ensuing year. The recent action of the Peterborough Town Council, in granting to people who were not pharmacists licences to sell poisons, was discussed at length, and a strong resolution of protest was sent to headquarters. The annual dinner of the Association followed the meeting (see *C. & D.*, March 17, p. 364).

**Sheffield.**—The monthly meeting of the Sheffield Pharmaceutical and Chemical Society, held on March 12, was attended by a very large company under the chairmanship of Mr. A. Knowles. An interesting paper was delivered by Mr. John Evans, F.I.C., Ph.C., and Mr. Stephen Furnival, Ph.C., entitled, *Possible Causes of Error in Dispensing*. A lengthy discussion followed, when many interesting points were debated. A hearty vote of thanks was accorded the authors.

**Stoke.**—A meeting of the North Staffordshire Chemists' Association and Retail Pharmacists' Union Branch was held at Stoke on March 8. Mr. Councillor Kemp (Fenton) called on Mr. Hardy (chairman of the R.P.U.); who explained the work of the R.P.U., Chemists' Defence Association, and Proprietary Articles Trade Association. A vote of thanks was proposed by Mr. Kemp, and Mr. Challinor (Fenton) was elected delegate for the coming R.P.U. Conference in London. A whist-drive will be held after Easter.

**Swansea.**—At a meeting of the Swansea and West Glamorgan Chemists' Association it was resolved that the Association should cease to exist as a separate body, and that it should be merged into the local branch of the Pharmaceutical Society.

**Walthamstow.**—A meeting of the Walthamstow Pharmaceutical Association was held on March 14, when Mr. A. R. Keith, member of the Pharmaceutical Society's Council, gave an address on the Retail Pharmacists' Union and Insurance matters.

**West Ham.**—The annual meeting of the West Ham Pharmacists' Association was held on March 15. Mr. C. Andrews Pratt occupied the chair, and there was a large attendance of members. After the adoption of the report and financial statement the new officers and Committee were elected for the forthcoming session. Before vacating the chair the retiring President addressed the members on the past year's activities of the Association. He pointed out the strong position it held in the Metropolitan area and briefly sketched the history of the Association since its formation. He thanked the members for their support during his year of office. Mr. J. Reed, who was elected the new *President* by the unanimous vote of the members, then took the chair amid the acclamations of the members, and urged them to work with a will to make the Association's twenty-first year one of marked and outstanding success. The other members were elected as follows: *Vice-President*, Mr. C. A. Jones; *Secretary and Treasurer*, Mr. C. Andrews Pratt; *Social Secretary*, Mr. Ben Watham; *Committee*, Messrs. Gwinn, C. S. Jones, Kirkpatrick, Leith, Maxey, Soper, Thomson. Votes of thanks to the retiring members concluded the meeting.

## Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts.

### Local Reports

**Leicestershire.**—The quality of drugs dispensed in the area was discussed at the recent meeting of the Insurance Committee. Samples of medicines dispensed had been obtained from three chemists in the area, and had been found to be compounded in accordance with the requirements of the prescriptions. Two practitioners were reported by the Panel Committee for excessive prescribing during 1921, and a surcharge was recommended. Notices will be issued for posting up in the shops of chemists giving information as to the provision of containers. Dr. Logan asked if three samples of dispensing were sufficient for so large an area, and Mr. J. Cave said that was only a beginning, and they proposed continuing on the same lines. Further, the Ministry was encouraging them with a view to getting the dispensing up to a high pitch. It was mentioned also that complaints had been made with regard to drugs, but in Leicestershire there had been only one in eleven years, and that was found to be frivolous.

**Preston.**—Dr. Pimblett, on March 8, at a meeting of the Insurance Committee, drew attention to the increase in prescriptions issued to insured persons. The total issued in January was 19,161, or 2,107 more than in January 1922, and 4,000 more than in December 1922.

### Complaint against Limited Company

The Minister of Health, having considered the report made by the Inquiry Committee constituted by him, on a representation made by the Kent Insurance Committee, to inquire into the case of the Lion Drug Stores, Ltd., 75 West Street, Brighton, has decided not to remove the name of the company from the list of persons supplying drugs or appliances for the area of the Committee. The Minister directs that the costs of the Committee be paid by the Lion Drug Stores, Ltd., and orders that the sum of £5 be withheld from the supplementary grant to the Insurance Committee in respect of the year 1923, this sum to be recovered in the usual manner. The Committee, which consisted of Mr. E. H. Tindal Atkinson (chairman), Mr. F. Bate, and Mr. R. A. Robinson, found, *inter alia*, that the respondents' shop at 47 High Street, Tunbridge Wells, was in charge of a qualified manager until June 1922. "On or about June 21, 1922, the duly qualified manager then in charge absconded, taking with him some of the respondents' money, in respect of which offence he was, on or about July 3, 1922, convicted and sentenced. On June 21, 1922, and for a few days after, Mr. Hayball, the superintendent of the respondents' business, took charge of the shop, and from June 23 until July 10, a Mr. Mountain, an unqualified person, was appointed to take charge of the shop, subject to such supervision as Mr. Hayball could exercise on somewhat frequent visits from Brighton, where the head office of the respondents is situate. On July 1, 1922, the respondents caused to be inserted in *THE CHEMIST AND DRUGGIST* of that date an advertisement inviting applications for employment as manager of a chemist's shop in Tunbridge Wells. The respondents received some thirty or forty replies, but none of the candidates so replying appears to have been satisfactory to the respondents. . . . On or about July 10, 1922, a Mr. Porter, an unqualified person, was appointed to take charge of the shop in place of Mr. Mountain, subject to such supervision as Mr. Hayball could exercise. . . . On September 1, 1922, the respondents appointed a Mr. Foster, a duly qualified chemist, to manage the said shop, and the respondents, who had on August 30, 1922, been released from the terms of their original agreement of 1917, were readmitted as contractors on and from September 5, 1922. Between June 21 and July 19, 1922, some nine National Health Insurance prescriptions were dispensed at the said shop, some of them containing scheduled poisons. In our view the respondents failed to prove that these were dispensed under Mr. Hayball's supervision."



## Trade Report

42, Cannon Street, E.C.4, March 22

THE Mincing Lane produce markets have undergone little change, business in most directions having been on a disappointingly small scale. The fact that there is very little export demand for Continental account adds to the depressed feeling. Prices, however, are very steady, and the bulk of the changes enumerated are upwards. Interest in crude drugs has concentrated on the auction this week, and privately the few alterations include a lower tendency in agar agar owing to arrivals. Crude antimony is decidedly firm. Menthol is offered at lower prices on the spot, although higher rates are asked for forward shipment. Siam gamboge is easier, and myrrh is rather cheaper. Gentian is held for firmer prices in some quarters, owing to excessive rains in France having partly damaged the crop. Albumen has been sold at higher prices to arrive. Canary seed is active and Dutch caraway is very scarce and firmer. Norwegian cod-liver oil has been in rather more demand, as present prices are regarded as reasonable and cheap. Mercury buyers are reluctant to operate at the increased prices, and in the mining districts of Australia and South Africa it is reported that consumers are still working on old stocks bought at a lower level.

Higher	Firmer	Easier	Lower
Acid oils	Caraway seed	Lead acetate	Gamboge
Albumen, egg	Castor oil	Palm kernel oil	Gua'acum
Coccol oil	(secon-1s)	Peppermint oil	Honey
Hydroquinone	Cottonseed oil	(American)	Ipecacuanha
Palm oils	Formaldehyde	Potash	(Cartagena)
Phenacetin	Gentian	prussiate	Jambul seed
Potash caustic	Orange oil	Sarsaparilla	Menthol
Potash	(e.i.f.)	(native Jam.)	Mint oil (Jap.)
permanag.	Soya bean oil		Myrrh
Sodium sulphide	Potash carb.		
(Continental)			
	Steadier		
	Sal ammoniac		
	Betanaphthol		

### Cablegrams

NEW YORK, March 20.—Business is fair. Methyl salicylate is dearer at 62 c. per lb., and mercury has advanced to \$75.00 per bottle. Hydrastis (golden seal) is also higher at \$3.35, and taraxacum has advanced to 15 c. Mexican sarsaparilla is dearer at 27 c., and balsam tolu at 82½ c. Jalap is cheaper at 30 c., and burdock root has declined to 21 c. Belladonna root is lower at 11 c., and short buchua is cheaper at 92 c. per lb.

BERGEN, March 21.—The total catch of cod for the whole of Norway since the opening of the season amounts to 19,200,000, against 15,100,000 for the corresponding week of last year, and the yield of steam-refined medicinal oil is 39,551 hectolitres, against 29,756 hectolitres for the same period of 1922. Price of finest new medicinal steam-refined oil of 1923 crop is about 92s. per barrel, c.i.f. London.

### Exchange Rates on London

The following is a list of Continental and other exchange rates against the pound sterling on London prevailing at 4 p.m. on Wednesday :—

	Par value	March 14	March 21
Amsterdam, chqs. fl.	12.107	11.89—11.89½	11.89½—11.90
Berlin ... marks	20.43	97.500—98.000	97.000—97.500
Brussels, chqs. fr.	25.22½	89.55—89.65	77.60—77.70
Calcutta, rup. ...	2s.	16½d.—16¾d.	16½d.—16¾d.
Constantinople pstrs.	110	650—680*	670—700*
Greece ... dreh.	25.22½	420—425	420—430
Italy, sight ... lire	25.22½	98½—98½	94½—94½
Lisbon, sight escudo	53½d.	2½d.—2½d.	2½d.—2½d.
Madrid, sight pes.	25.22½	30.46—30.49	30.36—30.39
Montreal, cable ... \$	4.86½	4.79½—4.79½	4.79½—4.80
New York, cable ... \$	4.86½	4.69½—4.69½	4.69½—4.69½
Paris, chqs. ... fr.	25.22½	77.20—77.30	69.05—69.15
Singapore ... t.t. dollar	25.22½	28½d.—28½d.	28½d.—28½d.
Switzerland ... fr.	25.22½	25.22—25.24	25.40—25.43
Vienna ... kr.	24.02	330.000—345.000	325.000—345.000
Yokohama, T.T. yen	24.58d.	24½d.—24½d.	24½d.—24½d.

\* Nominal.

### Crude Drugs, etc.

AGAR AGAR.—Kobe No. 1 on the spot can be had at 6s. 1d. per lb., but for goods close at hand from 5s. to 5s. 3d. per lb. c.i.f. is quoted.

ALBUMEN.—Prime Chinese egg is still 3s. per lb. on the spot, but prices to arrive are higher, the sales including April-May and April-June shipment at 2s. 11d. per lb. c.i.f. terms.

ANTIMONY is decidedly firm, due to the continued very light supplies of British and foreign refined, while Eastern shippers are reserved, and asking £26 to £26 10s. Warehouse lots are worth about £27 10s. Best English regulus is quoted £38 upward. Spot crude is worth about £20, there being little offered.

CAMPOR (CRUDE).—Chinese 90 per cent. is quoted at from 3s. 4d. to 3s. 5d. per lb. on the spot, and 3s. c.i.f. for March-April shipment.

CAMPOR (REFINED).—Japanese 2½-lb. slabs are quiet at 3s. 9d. per lb., and for March-April shipment 3s. 5d. c.i.f. is quoted. Sellers of ¼-oz. tablets are asking 4s. 4d. to 4s. 5d. per lb. on the spot. White flowers are quoted at 4s. per lb.

CANNABIS INDICA.—Sellers of good green Bombay tops quote from 20s. to 21s. per lb., and African at 1s. 3d. per lb.

CASCARA SAGRADA.—Offers of usual quality 1920 peel have been made at 68s. per cwt. c.i.f. via Panama Canal; on the spot three-year-old is offered at 77s. 6d.

COD LIVER OIL has been in rather better demand, as present prices are regarded as favourable, sellers quoting at about 90s. per barrel, c.i.f. London, and upwards for finest new Lofoten non-freezing medicinal oil. Our Bergen correspondent writes on March 19 that the cod fisheries at Lofoten and the neighbouring districts continues favourable. The output of all the cod fisheries, compared with that of the previous years, is as follows :—

	Catch of Cod	Yield of steam refined cod-liver oil	Livers for Crude oil
March 10, 1923	14,500,000	28,910 (Hect.)	4,729 (Hect.)
March 11, 1922	11,400,000	22,960 "	3,124 "
March 12, 1921	13,700,000	24,800 "	4,200 "
March 13, 1920	8,500,000	13,700 "	1,600 "
March 15, 1919	5,500,000	7,000 "	1,000 "

The market is quiet, and sellers have retired, refusing the offers of buyers. New finest non-freezing steam-refined oil is quoted at 92s. per barrel, c.i.f. London.

EUPHORBIA HERB is offered at 7½d. per lb. for a parcel just arrived.

GAMBOGE is easier, good Siam pipe offering privately at £20 per cwt.

GENTIAN is firmer in some quarters, being held for 37s. 6d. per cwt. on the spot.

GUM ACACIA.—Kordofan sorts are plentiful on the spot, owing to fair-sized arrivals; usual half-hard are offered at 75s., and unsifted at 72s. 6d. per cwt.

JAMBUL SEED can be had at 10d. per lb. for Bombay quality.

MAGNESIUM.—There is a fair demand, and the tone is steady. Home makers are quoting about 4s. 3d. to 4s. 9d. per lb., according to quantity, based on 99.9 per cent. metal. There is not much Continental offering.

MENTHOL has been somewhat pressed for sale and is again cheaper in the absence of business, Kobayashi-Suzuki on the spot offering at 33s. to 33s. 6d. per lb. To arrive, the higher price of 31s. c.i.f. is asked.

MERCURY.—The demand has been, if anything, on the quiet side, but the tone is steady, sellers asking £12 5s. up to £12 10s. on the spot, while the lower figure seems the nearest quotation. Only moderate quantities are on offer, and there is no eagerness to sell in the changed aspect of the market, while Italian producers are to all intents and purposes out of the market. (The general position is dealt with in our editorial columns.) The arrivals since our last report comprise 5,821 lb., and 5,981 lb. from Spain, also 946 lb. from Chile.

MYRRH is cheaper, fair pale Aden sorts offering at £7 15s. per cwt.

PLATINUM.—The undertone is easy, buyers being under the impression that a fair amount of Russian metal has yet to be liquidated. The current quotations for refined



is nominally £22 10s., while raw metal is obtainable at about £20 per oz.

**RUBBER.**—A steadier tone is now apparent, and the liquidations on the part of weak holders have ceased. The spot demand has considerably improved, and heavy shipments have taken place to America. Strenuous efforts to secure modification of the Restriction Bill have recently been made, chiefly by American interests, but there seems little prospect of the Colonial Office giving way to the agitation. Singapore prices are slightly firmer all round, and the general outlook is decidedly brighter. The feature of the week was the substantial London deliveries, 2,793 tons having left the warehouses, while arrivals totalled 1,087 tons, with a subsequent decrease of 1,706 tons in the stocks. The total London stock of 66,052 tons represents the lowest figures for the past twelve months. Quotations (Wednesday, 5 p.m.): No. 1 crêpe and standard ribbed smoked sheet, spot and March, 1s. 4½d.; April, 1s. 4½d. to 1s. 4¾d.; April-June, 1s. 4¾d. to 1s. 4¾d.; July-September, 1s. 5¼d. to 1s. 5¼d.; October-December, 1s. 5½d. to 1s. 5¾d. Hard fine para is decidedly easier at 1s. 3¾d. Balata remains steady, W.I. sheet 3s. 9d., Venezuela block 3s. 5d., Iquitos block 1s. 6d. to 1s. 7d. per lb.

**SANDARAC** is plentiful on the spot. Finest pale can be had at about 107s. 6d., good at 95s., and medium at 75s. per cwt.

**SHELLAC.**—Prices at Calcutta have fluctuated considerably but have been shaping upward rather than downward. There was some falling off in the February shipments against the previous month, but this market is at least assured of fair supplies for some time to come, and forward positions have been rather easier. Deliveries continue very good this month. Spot closes easy at 355s. per cwt. for usual standard TN orange quality. Sales for delivery include March at 352s. 6d., May at 322s. 6d. to 330s., and August 305s. to 307s. 6d.

**STARCH PRODUCTS.**—Farina is steady with Japanese No. 1 offering at 16s. per cwt. on the spot. Dutch is 15s. per cwt. on the spot, and for prompt shipment 13s. 9d. f.o.b. is quoted. English rice starch crystals offer at £40, and Continental at £34 per ton. Superior Dutch dextrin 22s. 6d., No. 2 being 20s. to 21s. American maize starch powder is 14s. 1½d. per cwt. on the spot.

### Seeds, Spices, etc.

**CARAWAY SEED** continues very scarce, and for Dutch 145s. per cwt. is quoted. Morocco is unobtainable on the spot.

**CLOVES** are dull, fair Zanzibar offering at 1s. per lb. on the spot. Sales to arrive include January-March and March-May shipment at 10½d. to 11d. per lb. c.i.f. Penang cloves have met with more demand, and there is little offered below 3s. per lb. According to the wharf statistics, the landings of Zanzibar cloves in London for the week amounted to 341 and the deliveries to 124, leaving a stock of 1,473, against 13,810 in 1922.

**COCONUT (DESICCATED)** is firm, halves having been sold at from 43s. to 44s. per cwt. To arrive, March-April shipment has been sold at 41s. 6d., and April-May at 40s. 6d. c.i.f., sellers quoting 41s. c.i.f.

**GINGER** remains firm. Japanese is quoted at 65s. per cwt. on the spot, and March-April shipment is 60s. c.i.f. Wormy Sierra Leone is 62s. 6d. spot. Lower qualities of Cochin ginger for grinding have been in fair inquiry; washed rough sound is 70s., and wormy 65s. Jamaica is little offered, but shipments of new crop ratoon quality are to hand. Small Jamaica is 190s., and medium to good 230s.

**NUTMEGS** are quiet, but as stocks are small, there is no tendency to force sales. Singapore 110's offer at 10½d., 80's at 1s. 1½d., 65's 1s. 7½d., and West India 110's at 8½d. per lb.

**PEPPER.**—Fair black Singapore is quiet on the spot at 4¾d. per lb. Sellers of March-May and April-June shipment quote 4½d. c.i.f. Lampong is 4½d. spot. White Muntok is quiet at 6½d. per lb. on the spot, and for March-May shipment sellers quote 6¾d. c.i.f.; the value of white Singapore on the spot is 6½d. per lb., and March-May shipment is 6¼d. c.i.f.

**SEEDS.**—The following are current spot quotations:—Spanish ANISE, 90s. to 95s. per cwt; Russia, 65s. to 70s. CANARY SEED market is active. Mazagan, 19s. per cwt.; Larache, 18s. to 18s. 6d.; inferior Saffi, 18s.; Plate, 17s.; Turkish, 16s. 6d.; Tangier, 23s.; and Spanish, 24s. to 26s. Sound CORIANDER SEED is 60s. per cwt., and wormy 35s. to 55s., as to quality. CUMIN SEED is 145s. per cwt. DILL SEED is 21s. 6d. to 23s. 6d. per cwt., as to quality. FENNEL SEED is offered at from 65s. to 80s. per cwt., as to quality. FENUGREEK SEED is 25s. per cwt. HEMP SEED is 14s. LINSEED 22s. 6d. for Morocco, and good English yellow MUSTARD SEED is 33s. to 35s. per cwt.

### Essential Oils

**SICILIAN** oils are dearer to arrive than on the spot, and this is probably due to speculative movements rather than any increased consuming demand. American peppermint is easier, and Japanese mint is also cheaper. Patchouli has been in fairly good demand, the spot stocks having been reduced in some hands.

**ANISE (STAR).**—"Red Ship" on the spot is dull and unchanged at 2s. per lb., and 1s. 10d., c.i.f., for March-April shipment.

**BERGAMOT** is steady for 37 to 39 l.a. at 12s. to 12s. 6d. per lb. on the spot, according to brand, which can be shaded for quantity in some directions. The price quoted for shipment is 11s. 6d. to 12s. 3d. c.i.f.

**BOIS DE ROSE (FEMELLE).**—Spot holders are asking from 9s. 3d. to 9s. 6d. per lb.

**CAMPHOR.**—White essential is quoted at from 75s. to 85s. per cwt. as to seller. Brown oil, s.g. 1.012, is offered at 67s. 6d.

**CASSIA.**—On the spot 8s. 3d. per lb. is quoted for 80 to 85 c.a. For re-sale parcels 7s. 9d., c.i.f., would buy.

**CINNAMON.**—Ceylon leaf on the spot is quiet at 4½d. per oz., and for shipment 3½d., c.i.f.

**CITRONELLA.**—Ceylon on the spot is quiet at 3s. 2½d. to 3s. 3d. per lb., and 3s. 1d., c.i.f., to arrive. Java is firmer at 3s. 10d. to 3s. 11d.

**GERANIUM.**—Bourbon is very scarce at 27s. 6d. to 28s. 6d. per lb. on the spot. Algerian for May delivery is offered at 29s.

**LEMON.**—The c.i.f. prices are firm at from 2s. 10d. to 3s. 1d. per lb., according to brand; spot holders quote about 2s. 10d. to 3s.

**LEMONGRASS.**—Cochin on the spot is steady at 2½d. per oz. The price to arrive is 2½d. c.i.f.

**MINT.**—Japanese dementholised Kobayashi-Suzuki is cheaper at 6s. 3d. per lb. on the spot and 5s 10½d., c.i.f., is quoted for March-April shipment.

**ORANGE** is irregular. Much higher shipment quotations have been made in some quarters this week for Sicilian sweet, from 10s 10d. to 11s. 5d. c.i.f., representing current value of three brands. Other shippers are quoting from 9s. 6d. to 10s. c.i.f. On the spot, supplies are still available at 9s. 6d., but 10s. 6d. is a more general figure. The price of bitter to arrive ranges from 9s. to 10s. 6d. c.i.f.

**PALMAROSA** is steady on the spot at 17s. per lb. in pote. PATCHOULI has been in fairly good demand, and usual Penang quality is quoted at 30s. per lb.

**PEPPERMINT.**—American natural oil is quiet and easier on the spot at from 12s. 6d. to 13s. per lb., according to seller. The price quoted for shipment in 10-case lots is 12s. c.i.f. Franco-Mitcham oil sells in small quantities at 32s. 6d. per lb.

**PETITGRAIN.**—Paraguayan on the spot is about steady at from 6s. 9d. to 7s. 3d. per lb., according to seller.

**SANDALWOOD.**—Mysore Government price is 27s. 6d. per lb. for 5-case lots. In other directions 25s. is still quoted for 92 to 94 santalol (B.P. oil). West Indian (ol. amyris) is unchanged at 16s.

**SPIKE.**—Spanish in drum lots is quoted at 2s. 10½d. per lb.

The following are current spot quotations at per lb.:—Cedarwood, American, 1s. 4½d. to 1s. 6d.; clove, English, 7s. 3d.; ginger, 23s.; gingergrass, 7s. 6d. to 8s. 3d.; lavender (38-40 per cent.), French, 12s. 6d. to 13s.; lime, West Indian distilled, 3s.; linaloeewood, Mexican, 9s. 6d. to 10s.; mandarin, 17s. to 18s.; nutmeg, 4s. 7½d.; saffras, 4s. 9d.; spearmint, 12s.; wormseed, 20s.; wormwood, 31s.



## Aromatic and Synthetic Chemicals, etc.

FURTHER advances in the spot quotations of coumarin, methyl salicylate, terpineol have been made. As pointed out last week, other articles are also tending firmer owing to the difficulty in replacing stocks.

Amyl salicylate ..	2/9 to 3/-	Geraniol (Java citron- ella) ..	5/-
Aubepine ..	12/- to 15/-	Heliotropine ..	6/6 to 7/-
Benzaldehyde f.f.c.	3/- to 3/3	Iso-eugenol ..	18/6
Benzyl acetat. ..	2/7 to 2/9	Linalol ..	17/-
" alcohol ..	2/7 to 2/9	Linalyl acetate ..	23/6
" benzoate ..	2/10	Methyl anthranilate ..	6/-
Bromstyrol ..	9/6	Methyl salicylate ..	2/6
Cinnamic aldehyd. ..	8/- upwards	Phenyl ethyl alcohol ..	17/6
Citral ..	9/6 to 10/6	Rhodinol ..	52/- to 75/-
Citronellol ..	17/6 to 22/-	Satrol ..	2/3 to 2/9
Coumarin ..	14/3 to 14/6	Terpineol ..	2/10 to 2/11
Eugenol ..	12/6	Vanillin ..	23/6 to 24/-

## Pharmaceutical Chemicals, etc.

THE position is very much the same as reported last week. The demand generally is not at all good, but prices are fully maintained and the tone throughout is quite strong. Some products show further slight advances on the week, which is due to shortening supplies on spot consequent upon the stoppage of supplies from Germany. Other Continental makers have advanced their prices now that there is no competition to meet from Germany in this market. Phenacetin is dearer.

ACETANILIDE keeps very steady, although still rather quiet with spot offers round about 1s. 5½d. to 1s. 6d. per lb.

AMIDOPYRIN, although seldom asked for, is fully maintained at the better price of 13s. 6d. per lb.

ASPIRIN.—The higher price of 3s. 3d. per lb. now governs a very firm market, and some holders are inclined to look for still higher rates. All supplies from Germany are stopped.

BARBITONE is now quoted on spot at 14s. 9d. to 15s. per lb.; there is seldom any inquiry, and the higher rates are due to advances on the Continent.

BENZOIC ACID is firm as quoted last week at 2s. 2d. to 2s. 3d. per lb.

BROMIDES.—The demand continues very limited, and there are still large parcels to be cleared; offers on spot continue to be irregular. Ammonium, 8d. to 9d. per lb.; potassium, crystals and granular, 6½d. to 7½d.; sodium, crystals and granular, 6½d. to 7½d. per lb. Offers from the Continent are at much higher rates.

CALCIUM LACTATE remains quiet, and most offers on spot in the region of 2s. per lb. would be discounted for good quantities.

CHLORAL HYDRATE is steady and prices tend to "firm up"; duty paid, on spot, 4s. to 4s. 2d. per lb.

CITRIC ACID.—B.P. crystals have been in fair demand for forward delivery as quoted at about 1s. 7d. per lb., less 5 per cent. Spot prices are from 1s. 7½d. to 1s. 8d.

CREOSOTE.—B.P. remains steady but is slow of sale as quoted at 2s. 6d. per lb.

CREOSOTE CARBONATE is quoted at level rates on the week at 10s. per lb. with business light.

GUAIACOL CARBONATE is nominal at 8s. to 8s. 6d. per lb. on an idle market.

HEXAMINE.—This market is directly affected by the position in Germany, and spot rates are now very firm at 4s. to 4s. 3d. per lb., with every sign of further advances to come.

HYDROQUINONE has advanced on the Continent, and spot holders have made a similar move and are now quoting at 3s. 8d. to 3s. 9d. per lb.

METHYL SALICYLATE stands very firm on spot at 2s. 6d. per lb. Supplies are restricted and further advances are expected.

METHYL SULPHONAL remains slow of sale at the quoted rate of 13s. per lb.

PARAFORMALDEHYDE.—The spot position seems firmer, and one holder is now not accepting much less than 4s. per lb., but in other quarters 3s. 9d. is still being accepted.

PARALDEHYDE.—Imports of crude from Canada have not so far affected the spot market, which stands quite steady at 1s. 5½d. to 1s. 6d. per lb. Continental rates are much dearer.

PHENACETIN has advanced during the week to 5s. 9d.

per lb. on a strong market. Continental supplies restricted and at higher rates.

PHENAZONE holds well as quoted at 7s. per lb.; the demand is not very good, but the Continental position is holding the market.

PHENOLPHTHALEIN, after the recent relapse, is now on the up-grade again, and little is to be found on spot below the level of 4s. 10d. to 5s. per lb.

POTASSIUM PERMANGANATE of B.P. quality is quoted at 10½d. per lb. on the spot, and there is not much about even at that price. German supplies are cut off, and other Continental makers are asking much more to-day.

RESORCIN is steady but slow of sale as quoted at 5s. per lb.

SALICYLIC ACID.—The higher rate of 2s. 2d. per lb. quoted last week now governs a firm market, which has a tendency to move still higher. Continental supplies are restricted and are much dearer.

SALOL is firm at 2s. 6d. to 2s. 9d. per lb., and spot holders seem justified in asking these rates in view of present Continental rates.

SILVER NITRATE.—The price of crystals on March 21 was based on a metal price of 32½d. per oz. as follows:—In quantities of 25 oz., 2s. 1¾d. per oz.; 50 oz., 2s. 0½d. per oz.; 100 oz., 2s. 0¾d. per oz.; 250 oz., 1s. 11½d. per oz.; 500 oz., 1s. 11¾d. per oz.

SODIUM BENZOATE is firm at 2s. 2d. per lb. for the spot quotation. Continental prices are dearer. There is but little demand.

SODIUM SALICYLATE.—Last week's higher price of 2s. 6d. per lb. for crystals and powder is being fully maintained, and some holders are talking about further advances on account of the Continental position.

SULPHONAL is still offered at 12s. 9d. per lb., but little interest is shown.

TANNIC ACID.—Leviss is available from spot stocks with the price firm at 3s. 6d. per lb.

TARTAR EMETIC is quoted at from 1s. 4d. to 1s. 6d. per lb.

TERPENE HYDRATE is steady on a dull market at 1s. 9d. per lb.

The following prices are quoted by agents for German chemical makers:—Hexamine, 8s. 4d. per kilo, f.o.b. Hamburg; guaiacol carbonate, 7s. 6d. per lb.; potassium sulphoguaiacolate, 5s. per lb., f.o.b. Hamburg; sodium benzoate, 2s. 3d. per lb., f.o.b. Hamburg, at which business has been done; potassium bromide, 1s. 2d. per kilo; sodium and ammonium, 1s. 3d. per kilo.

## Industrial Chemicals, etc.

London, March 21.

THERE have not been many changes in the market position over the past week, except for some potassium products, which have "firmed up" again very considerably. These movements have been caused on the one hand by restricted deliveries, and in some cases a complete stoppage of supplies, and short supplies on this side, and, on the other hand, to the fact that manufacturers have again increased their prices. The general firmness of the market is largely due to the position in Germany, and prices are firmly held, or on the upward trend, despite the marked lack of demand.

ACETIC ACID continues exceedingly firm, with spot supplies running short. 80 per cent. technical, £47; 80 per cent. pure, £48; 98 per cent. glacial, £70 per ton, ex wharf, London, in casks and demijohns. German supplies have ceased altogether for the time being.

ACETONE.—Some small parcels of British Government specification are offering on spot in the region of £125 per ton, in drums.

AMMONIA (ANHYDROUS) has been inquired for for forward delivery and is quoted at about 1s. 6d. per lb. for 99.95 per cent.

BLEACHING POWDER meets with only small occasional business and most offers are at about £11 per ton for 35/37 per cent.

COPPER SULPHATE.—British makers this morning state their prices are very steady at £26 10s. in bags and £27 in casks per ton, delivered or f.o.b.

CREAM OF TARTAR B.P. on spot is selling fairly well at about 92s. 6d. per cwt. and 2s. 6d. less for one-ton lots. A fair business is being done.



**EPSOM SALTS.**—Commercial parcels are offering at about £5 10s. per ton, in bags, but there is little inquiry at the moment.

**FORMALDEHYDE** is steadier, with the spot price at £87 10s. per ton, ex wharf, London. German supplies are cut off and the spot position may advance.

**GLAUBER'S SALT** is still slow in moving off; spot parcels are offered at £3 15s. to £4 per ton, in bags.

**LEAD ACETATE** is now offering on spot and is a shade easier, but is likely to advance again. Brown, £36; white crystals, £39 per ton.

**LEAD PRODUCTS.**—Red lead and litharge are offered by importers at about £36 per ton, c.i.f. London; white lead at about £43 10s.

**LITHOPONE** is firm on spot at £21 per ton for 30 per cent. Continental red seal, with not much available. Prices are likely to advance with the German supplies cut off.

**OXALIC ACID** is steadier, but remains slow of sale as offered in the region of 6½d. per lb.

**POTASH CAUSTIC.**—Spot goods have advanced again very considerably, and nothing much is now offered below about £35 per ton, ex store. German supplies are stopped altogether.

**POTASSIUM CARBONATE** is also firmer on spot, with nothing more coming to hand from Germany. 95 to 93 per cent. is quoted firmly at £33 to £33 10s. per ton.

**POTASSIUM PERMANGANATE** has again advanced on spot, with supplies short and Continental rates much higher; commercial quality, 9d. per lb.

**POTASSIUM PRUSSATE** is a shade easier, with some offers down to 1s. 5d. per lb. The market is likely to recover to its former level of 1s. 5½d.

**SODA CAUSTIC** is steady from dealers, who still report very little doing. 70 to 72 per cent., £19 10s.; 76 to 77 per cent., £21 10s. per ton, ex wharf, shipping port. British makers' prices to domestic consumers on contract are unchanged at: 70 to 72 per cent., £20; 76 to 77 per cent., £21 10s. per ton, in drums, carriage paid. Makers' prices for export vary as to destination.

**SODIUM BICARBONATE** from British makers is steady at £10 10s. per ton, in bags. Dealers are out of the market for the time being owing to the position in Germany.

**SODIUM BICHROMATE** from British makers is very steady at the old rate of 4½d. per lb. for home trade only; export prices are generally more.

**SODIUM CARBONATE** (washing crystals) are quoted by British makers to domestic consumers on contract at £5 5s. per ton, in bags, carriage paid to destination.

**SODIUM CHLORATE** is offered by some dealers at about 2½d. per lb.; British makers' price is at about 2½d. per lb.

**SODIUM HYPOSULPHITE** is firm on spot, with pea crystals, in 1-cwt. kegs, quoted at £16 to £16 10s. per ton, and commercial quality, in casks, at £10 per ton. German supplies have been stopped, and further advances in prices are not unlikely. Other Continental makers' prices are on the upward trend.

**SODIUM PRUSSATE** remains dull, with the price on spot easy at 9d. per lb.

**SODIUM SULPHIDE.**—Continental prices have advanced considerably, but there are still some spot stocks offered at about £15 to £15 10s. for 60 to 62 per cent. solid, in drums, and £16 to £16 10s. for broken; 60 to 63 per cent. concentrated, in casks, £15 per ton.

**COAL TAR PRODUCTS, ETC.**—In many items business continues decidedly slow, but the one or two products that have shown activity recently continue healthy markets. Pitch, carbolic acid crystals and creosote oil are firm. ANILINE OIL and SALT remain dull, with prices on the easy side at 11d. per lb., packages free. BETANAPHTHOL is steadier, and there is some inquiry, with offers at about 1s. 4½d. per lb. PITCH in London is now quoted firmly at 190s. per ton, with very little available to meet the continued good demand. Last October the price was 72s. 6d. per ton. PURE METHYL ALCOHOL is available on spot at about £108 per ton, but the demand is small. CARBOLIC ACID CRYSTALS would be a source of good business if there was the quantity available. The outlook for the near future for an easier position is not good. CRESYLIC ACID is unchanged at 2s. 3d. per gallon, with the market dull. CREOSOTE OIL is now quoted at 10½d. per gallon, naked, f.o.b. in bulk shipment; a fair business is passing.

**PYRIDINE** is steady but in small demand only, as quoted at 12s. per gall. **HEXAMETHYLENE** is maintained at 3s. 9d. to 4s. per gallon, but buyers are few at these high rates. **DISINFECTANTS** are steady at the old price of 3s. 9d. per gallon, barrels free. **NAPHTHALENE** is very steady on spot and Continental prices are firm; £19 per ton. Crude, £6 to £11 5s.; crystals, £16; powder, £16; tablets, £28; candles, £28 per ton, packages free.

#### Fixed Oils, etc.

A continuance of good business in most items is recorded. Prices are again fully maintained, and in some instances show further advances. Palm and acid oils are dearer and stand firm. Throughout the market there is a generally firm tone. **ACID OILS.**—Due to the shortage of supplies on spot prices have now reached a famine level; coconut, 38s. 6d.; palm-kernel, 38s. 6d.; groundnut, 36s.; the market closes firm. **CASTOR OIL** is firm with the lower grades a shade dearer; pharmaceutical, 55s.; first pressings, 50s.; second pressings, 47s.; for spot to June. **COCONUT OIL.**—This market is much firmer at higher rates; deodorised, 47s.; Ceylon has moved up to 45s. 6d., and Cochin has advanced to 48s. **COTONSEED OIL.**—At slightly advanced rates for all grades the market closes steady; deodorised, 48s.; common edible, 46s.; soap-making, 44s.; crude, 40s. 6d. **GROUNDNUT OIL.**—A steady tone continues, with business on the quiet side. Deodorised, 55s.; crude Oriental, 45s. 6d. **PALM-KERNEL OIL.**—Slightly easier rates are quoted here with the market now steady; deodorised, 44s. 6d.; crude, c.i.f. for shipment, 39s. 6d. **PALM OIL.**—All grades have again moved to higher figures, with the market exceedingly firm, and spot supplies short. The demand continues quite good; Lagos, 38s.; softs, 38s.; hards, 39s. 9d. **SOYA-BEAN OIL** is much firmer, with higher prices ruling; deodorised, 47s. 6d.; crude Oriental, c.i.f. for shipment, 40s. Business has improved. **RAPE OIL.**—At unchanged rates the market continues steady, but quiet; refined, 49s.; crude, for shipment, 45s. c.i.f. **LINSEED OIL.**—Business in raw, naked, has been a little better this week, and at the close the market had a much firmer tone. Spot rates show no change on the week, but forward position are a shade dearer. On spot, 40s. 6d.; April, 38s. 6d.; May/Aug., 37s. 6d.; Sep./Dec., 36s. 10½d. Hull, on spot, 40s.; April, 39s. 1½d.; May/Aug., 38s.; Sep./Dec., 36s. 10½d. The position of home crushers continues to be favoured by the American demand, while good quantities are expected to be shipped in the near future to America. Shipments of seed from the River Plate have been heavy this season so far, but Indian seed is not offering very freely just yet. **TURPENTINE.**—The undertone has been a little firmer, with prices inclined to harden in all positions, but in spite of the low terms quoted for distant delivery, there is as yet but little interest in that direction. Still, the chances are that in view of the probability of the next season being entered upon with a very small surplus, forward purchases will eventually be attracted at a very heavy discount. Moderate stocks exist here, but these are firmly held, due to uncertainty as to fresh imports over the next few months. Total London stocks are returned at about 12,800 barrels. On spot, American closes at 109s. 6d.; March to April, 109s. 9d.; July to Dec., 82s. per cwt.

#### German Economic Situation

GERMAN business circles are now genuinely alarmed at the high prices of goods destined for export, and the Central Association of the wholesale trade has addressed a memorandum to the Minister for Economics, urging him to remove all restrictions on exports. Owing to heavy increases in the cost of production, prices now at least approximate those ruling abroad, and in many cases are even higher, thus making it impossible for German manufacturers to compete in foreign markets. The Association openly states that in consequence of this state of affairs, exporters, instead of supplying German goods to their foreign customers, are now arranging to fill such orders by the delivery of goods manufactured in Great Britain, Czechoslovakia, and other countries. At the same time retailers are complaining bitterly that manufacturers are charging higher prices in the home market for a number of goods than those quoted for export, and it is extremely



significant that a paper of the standing of the "Frankfurter Zeitung," in referring to complaints of this nature, should make use of the word "dumping." Curiously enough, the fact that goods for export are quoted at lower figures is used as an argument in favour of the retention of the control on foreign trade, although this control was instituted primarily for the purpose of preventing the "clearance sale" of Germany, *i.e.*, of imposing on exporters fixed minimum prices destined to balance, to some extent, the discrepancy caused by the depreciation of the mark. In fact, the decline in exports owing to the impossibility of competing in the foreign markets is depicted as being so serious that, in a veiled form, allusions are made to the necessity of subsidising industry, apart, of course, from removing all impediments in transactions with foreign buyers. The effects of the occupation of the Ruhr, and of the fiscal measures adopted by the Franco-Belgian authorities, are becoming increasingly felt in the chemical industry, since so many firms in unoccupied Germany depend upon the supply of indispensable raw materials from Rhenish works. Some chemicals are, indeed, no longer being offered, such as caustic soda. The two most important caustic soda works are situated at Wurselen and Stolberg, near Aix-la-Chapelle, and in consequence of the isolation of the occupied territory, a great shortage of this indispensable chemical, amounting to a crisis, occurred in unoccupied Germany. The Soda Syndicate immediately placed orders for British, and even for Polish, caustic soda, and is now arranging for supplies from America. The chemical and drug markets are very quiet, and as already stated, exports are practically negligible on account of the high prices demanded by manufacturers, and only a few orders of any importance have been placed, chiefly for heavy chemicals. Interest at the present moment is centred chiefly in bromides, for which there is a very brisk demand in consequence of the great expansion of the photographic industry. Speculation in drugs and chemicals is again rampant in Hamburg, where, apparently, it is sufficient to spread the rumour that a foreign buyer is making extensive purchases, and prices begin to soar—to the satisfaction of the person who wishes to unload; recently gum acacia provided the speculative object. The following are the average prices quoted for export, for one kilogram, except where otherwise mentioned:—Acetanilide, 3s.; acetic acid, glacial, £54 per ton; acetic acid, 80 per cent., £42 per ton, acetylsalicylic acid, the price for Heyden brand has advanced to \$1.60; agar agar, Kobe I., 6s. 6d. per lb.; a slightly coloured supply of Kobe I. is offered by a Hamburg wholesale drug house at 6s. 3d. per lb., Kobe II. at 5s. 3d. per lb., and a consignment due to arrive shortly is offered at 5s. per lb.; antipyrin, 13s. 9d. and 14s.; benzaldehyde, almost free from chlorine, for foodstuffs, is offered cheaply in Hamburg at Swiss francs 4.40; camphor, the price has declined to 3s. 10d. per lb.; citric acid, 3s. 8d.; cream of tartar, 98/100 per cent., is quoted \$50 per 100 kilos; ergot, large amounts have been exported from Hamburg at 3s. 8d.; glycerin, chemically pure, 28° Bé., \$48 per 100 kilos; hexamethylenetetramin, is quoted at 8s. 4d., and also at \$1.50; lemon oil, original, has advanced to lire 31; menthol, cryst., 35s. per lb.; phenacetin has been bought for export at 13s.; phenolphthalein, 10s.; salicylic acid, Heyden, 3s. 9d., other brands, such as Bayer, Schering, Merck, 3s. 6d.; santolin, £83; tartaric acid, fl. 1.50; vanillin, foreign buyers have purchased large amounts at 46s. The difficulties placed in the way of British trade with the occupied territory, in consequence of the abnormal situation created by the conflict between Franco-Belgian ordinances and German laws, have not yet been removed, as the concessions so far granted refer exclusively to contracts entered into prior to the present month.

### London Drug Auctions

Commercial Sale Rooms,

Mincing Lane, E.C.3, March 22.

AFTER an interval of eight weeks a drug auction was held to-day, but coming immediately before Easter week it was not surprising that the event fell flat, the bulk of the offerings being bought in. Only moderate supplies were offered, the features being the sparse offers of cardamoms, the large quantity of Sumatra benzoin and rhubarb offered, and the absence of grey Jamaica sarsaparilla. Cape and Curaçao aloes were neglected. Sumatra benzoin, where sold, was unchanged, with small sales. Buchu was also unchanged, and the bulk of the cardamoms offered was bought in, a fair quantity being disposed of subsequent to the auction. Gamboge was

much cheaper and honey was flat and cheaper to the extent of 2s. 6d. to 5s. per cwt. A string of Cartagena ipecacuanha sold cheaply, and Matto Grosso was unaltered. Kola and myrrh were neglected. Rhubarb met with a small demand at unaltered rates, and for native Jamaica sarsaparilla slightly easier rates were paid. Of Tinnevely senna only a few sales were made at easy rates, and the offers of beeswax were uninteresting. The following table shows the quantity of drugs offered and sold:—

	Offered	Sold		Offered	Sold
Adonis herb ..	71 ..	0	Henna leaves and powder ..	111 ..	0
Althea root ..	22 ..	5	Honey—		
Aloes—			Calif. ..	100 ..	0
Cape .. (cs.)	22 ..	0	Cuban ..	212 ..	2
.. (tins)	36 ..	0	Hawaiian ..	68 ..	0
Curaçao .. (cs.)	48 ..	0	Jamaica ..	244 ..	38
Ambergris (oz.)	146 ..	17	New Zealand (cs.)	262 ..	0
Ammoniacum (cs.)	17 ..	0	Hydrastis ..	1 ..	1
Anise, star .. (cs.)	60 ..	0	Ipecacuanha—		
Asafetida ..	20 ..	15	Cartagena ..	31 ..	31
Bael fruit ..	11 ..	0	Matto Grosso ..	41 ..	9
Balsam, African ..	5 ..	0	Jaborandi leaves ..	34 ..	0
.. of fir ..	3 ..	0	Jalap ..	23 ..	0
.. Peru ..	6 ..	1*	Jambul seed ..	15 ..	0
.. Tolu ..	4 ..	0	Kamala ..	19 ..	0
Belladonna leaves	25 ..	0	Kola ..	208 ..	1
Benzoin—			Lime tree flowers	36 ..	0
Palembang ..	14 ..	0	Linaloe oil ..	10 ..	0
Siam ..	34 ..	0	Liquorice juice (cut dec.)	40 ..	0
Sumatra ..	252 ..	5	Liquorice root ..	20 ..	0
Buchu ..	28 ..	2	Matico ..	20 ..	0
Calamus root ..	97 ..	0	Milk-sugar ..	13 ..	0
Calumaba ..	320 ..	0	Musk seed (pkgs.)	9 ..	0
Camphor .. (cr.)	20 ..	0	.. (tins.)	17 ..	17
Camphor oil, white (cs.)	100 ..	25	Myrrh ..	132 ..	0
Canella alba ..	6 ..	0	Nux vomica ..	114 ..	9
Cannab. ind. ..	18 ..	0	Olibanum ..	130 ..	0
Cantharides (Russ.)	12 ..	0	Orange peel ..	29 ..	0
Cardamoms ..	155 ..	29	Orchella weed ..	60 ..	0
Cardamom shells ..	19 ..	0	Oregon balsam ..	3 ..	0
Cascara sagrada ..	3 ..	0	Orris (Flor.) ..	10 ..	10
Cascarilla ..	10 ..	2	Plenisy root ..	9 ..	0
Cashew nuts ..	10 ..	0	Podophyllum root ..	15 ..	0
Cassia fistula ..	93 ..	0	Poke root ..	16 ..	0
Celery seed, ground	23 ..	0	Rhubarb (Ch.) ..	162 ..	28
Chaulmoogra oil ..	4 ..	0	Rose petals ..	4 ..	0
Cherry bark ..	36 ..	0	Sandarac ..	8 ..	0
Chiretta ..	6 ..	0	Sarsaparilla—		
Cinchona ..	48 ..	0	Lima ..	6 ..	4
Cinnamon bark oil	7 ..	0	Mexican ..	11 ..	0
Cinnamon leaf oil	1 ..	0	Native Nam. ..	19 ..	12
Clove oil ..	1 ..	0	Sassafras bark ..	27 ..	5
Cocculus ind. ..	101 ..	5	Scammonium ..	4 ..	0
Cochineal ..	6 ..	0	Scammony root ..	121 ..	0
Cohosh root ..	3 ..	0	Seedlac ..	66 ..	0
Colchicum root ..	10 ..	0	Senna and pods—		
Comfrey root ..	11 ..	0	Alex. ..	53 ..	34
Copaiba ..	6 ..	0	Tinnevely ..	316 ..	49
Cream of tartar (brls.)	39 ..	0	Serpentary ..	4 ..	0
Cream of tartar substitute (bgs.)	128 ..	0	Simaruba bark ..	60 ..	0
Croton seed ..	2 ..	0	Soap root ..	50 ..	0
Cubebs ..	29 ..	0	Stramonium ..	34 ..	0
Cutch ..	30 ..	30	Strophanthus ..	2 ..	0
Deer tongue leaves	4 ..	0	Tonka beans ..	35 ..	1
Digitalis leaves ..	15 ..	0	Taraxacum ..	3 ..	0
Dragon's blood ..	84 ..	0	Tragacanth ..	12 ..	0
Elemi .. (cs.)	102 ..	0	Turnerite ..	218 ..	0
Elm bark ..	3 ..	0	Uva ursi leaves ..	15 ..	0
Ergol ..	36 ..	0	Valerian ..	51 ..	0
Eucalyptus oil ..	76 ..	0	Wax (bees')—		
Fennel seed ..	24 ..	0	East African ..	131 ..	13*
Frangula bark ..	32 ..	0	East Indian ..	12 ..	0
Gamboge ..	32 ..	4	Egyptian ..	14 ..	0
Gelatin ..	47 ..	0	Jamaica ..	1 ..	0
Guaiacum ..	59 ..	3	Peruvian ..	4 ..	0
Gum acacia ..	34 ..	0	Witch hazel bark ..	10 ..	0
Gum karaya ..	106 ..	0	Witch hazel leaves	13 ..	0
Gurjun oil (dms.)	50 ..	0	Wormseed ..	25 ..	0
Henbane ..	17 ..	0			

\* Sold privately.

ALOE was neglected; 22 cases Cape were offered and bought in, 35s. per cwt. being wanted for good bright hard firsts, a bid of 32s. being refused; 36 tins of ordinary dull broken were bought in at 30s. per cwt. Of Curaçao 48 boxes offered, but nothing sold; fair liver was held at 60s., part capey at 50s., and ordinary dull at 40s. per cwt.

ALTHEA ROOT.—A parcel of 18 bags cut sold at 40s. per cwt.

AMMONIACUM.—A lot of 17 cases ordinary darkish and seedy almondy block offered and held at 1s. 6d. per lb.

ASAFETIDA.—Fifteen boxes part fair pinky block sold at from 70s. to 95s.



**BALSAM PERU.**—Two cases each containing 2 x 60 lb. drums, with a cinnamoin content of 57.1 per cent., were offered, of which one was sold privately, 7s. per lb. being wanted for the remainder.

**BENZOIN** was neglected, although a good selection of Sumatra was on offer. Good firsts well packed with small almonds was held at from £10 10s. to £11; three cases ordinary country-cut seconds sold at £6 per cwt. subject, and a case of streaky seconds country cut at 75s. Palembang was limited at from 80s. to 82s. 6d. for fair seconds with barky edges.

**BUCHU.**—Small round green leaf was held at 3s. 3d. per lb.; a bale of bronzy ovals sold at 2s. 9d., and a bag of small broken longs went at 2s. 9d. also; further bids of the same price are to be submitted.

**CALUMBA.**—A lot of 20 bags of small to extra bold bright yellow washed offered and held at 40s. per cwt., which is also the private price for this grade.

**CAMPHOR (CRUDE).**—Twenty cases Chinese 86.5 per cent. were offered and bought in at 3s. per lb.

**CAMPHOR OIL.**—A lot of 100 cases Japanese white essential was offered, and 25 cases slightly rusty sold at 70s. per cwt.

**CANELLA ALBA.**—Six bags of fair were offered and bought in at 5s. per lb.

**CANTHARIDES.**—Eight cases Chinese were offered and retired at 4s. 9d. per lb.; a bid of 4s. 6d. is to be submitted for the lot.

**CARDAMOMS.**—The scarcity was shown by the offerings of 155 cases only, but the public demand was poor, although a fair quantity was sold after the auction; full prices were paid, including the following:—Ceylon-Mysore (Kobo) extra bold pale partly split, 5s. 6d. per lb.; small pale, 3s. 8d.; small greenish, 3s. 3d.; bold pale splits, 4s. 1d.; medium ditto, 3s. 9d.; small, 3s. 1d.; tiny, 3s. 1d.; decorticated seed was bought in at 4s. 3d. Mangalore, good bold round brownish, were bought in at 5s. 6d., a bid of 5s. 3d. being refused.

**CASCARILLA.**—A single bag of siftings sold at 9½d. per lb., and a barrel had been sold privately.

**CASSIA FISTULA** was in fair supply, comprising 27 packages fair pod, which were bought in at 45s. per cwt.

**COCCULUS INDICUS.**—Five bags fair sold without reserve at 11s. per cwt. For 96 bags in another interest, offered under usual conditions, 15s. was wanted.

**CREAM OF TARTAR.**—A lot of 39 barrels B.P. powder was catalogued, of which ten barrels offered and bought in at 80s. per cwt., no bid being made; 128 bags cream of tartar substitute, lying in Birmingham, offered without reserve for account of whom it may concern, but no bid was made.

**CUTCH.**—A lot of 30 boxes Rangoon sold at from 28s. 6d. to 29s. per cwt.

**ERGOT.**—Twenty bags slightly weevilly Russian were offered, and bought in at 1s. 9d. per lb., and 16 bags good, sound Spanish were bought in at 2s. 1d. per lb.

**EUCALYPTUS OIL** was neglected, 58 cases being bought in, comprising 10 cases 66 to 67 per cent. eucalyptol at 1s. 3d., 10 cases 66 per cent. at 1s. 3d., and 38 cases Amygdalina at 6d. per lb. Also 10 cases, including 84 per cent. at 1s. 7d., and 3 cases Citriodora at 4s. per lb.

**GAMBOGE** was lower; 3 cases of very blocky rough Siam pipe or good pickings selling at £18 12s. 6d. per cwt.

**GUAIACUM.**—Five casks of pickings offered without reserve, but no bid was made. Three barrels ordinary partly glassy block sold at 5d. per lb.

**HONEY** met with a slow sale, with the exception of a few barrels of very fine pale liquid Jamaica. The bulk of the sales were effected by meeting buyers at a reduction of from 2s. 6d. to 5s. per cwt. on last sale values. The sales comprised 22 barrels Jamaica at 60s. per cwt. for white set, 40s. to 42s. 6d. for straw set, slightly sugary. Of Cuban, 2 casks white set sold at 60s. per cwt. 100 cases yellowish sugary set Californian were taken out at 60s.; 68 cases Hawaiian, whitish set, were bought in at 45s.; and 262 cases set New Zealand were also bought in, including white at 80s., biscuit 65s., pale at 75s., and brown at 45s. per cwt. Fifteen barrels pale

liquid amber Jamaica new crop sold at from 53s. to 65s. per cwt.

**IPECACUANHA.**—A string of a new import, 31 bags Cartagena, of fair quality, sold at 6s. 6d. per lb., the broker having a pocket order at this price. Of Matto Grosso, 41 bales offered, and 8 bales sold, fair leanish at 6s. 8d. to 6s. 9d., and ordinary dull at 6s. 6d. to 6s. 7d.

**JABORANDI LEAVES.**—A lot of 34 bags small brownish leaf from Parnahyba were bought in at 1s. per lb.

**JALAP.**—A lot of 13 bags, small to bold, part heavy Vera Cruz, testing 13.8 per cent. resin, was offered and bought in at 2s. per lb.

**MUSK SEED.**—Nine cases of fair odour from the Seychelles were offered, and bought in at 1s. 3d. per lb.; 17 tins (9 lbs. each) sold at 1s. per lb.

**NUX VOMICA.**—Twenty bags of good bright Cochin were bought in at 28s. per cwt.

**ORRIS.**—Ten bales of fair Florentine sorts sold at the full value of 34s. per cwt.

**RHUBARB.**—The sales were mostly without reserve, and included the following:—Small to medium flat High-dried dark fracture part wormy (4 cases), at 1s. 7d.; small ditto, 1s. 7d.; pickings (6 cases), 1s. 3d.; small round, 1s. 11d. Two cases Canton at 2s. 11d. for medium to bold round, with ¾ dull pinky and ¼ grey and dark fracture; and 5 cases small to medium round, smooth coated well trimmed Shensi with three-quarter greyish pinky fracture sold at 2s. 3d. per lb. Under usual conditions, a case of Shensi pickings sold at 3s. Medium to bold flat High-dried, with ¾ fair pinky fracture, was bought in at 3s., and rough round horny High-dried with mostly greyish fracture at 1s. 9d. per lb.

**ROSE PETALS.**—Four bales fair French red were bought in at 2s. 6d. per lb.

**SARSAPARILLA.**—No genuine grey Jamaica offered, and although 9 bales were catalogued they had not arrived in time; 4s. per lb. is asked. Six bales Mexican offered, and were bought in at 1s. 9d. per lb. Of Native-Jamaica, 19 bales offered and 9 sold at slightly easier rates, comprising fair dullish red at 1s. 9d. per lb.; 5 bales yellow native sold at 1s. 7d. per lb. Of Lima-Jamaica 6 bales offered and 4 sold, including part chumpy and dark, at 3s. 6d. per lb.

**SASSAFRAS.**—Five bags of sea-damaged sassafras wood chips sold without reserve, for account of whom it may concern, at from 30s. to 31s. per cwt.; the sound value is about 40s.

**SCAMMONY ROOT.**—A lot of 90 bags Mexican, analysing 17.95 per cent. resin, was offered and bought in at 45s. per cwt., but slightly less would be accepted. A lot of 31 bags Mexican, offered without reserve, but no bid was made.

**SENNA.**—Small sales of Tinnevely leaf were made at unaltered prices, including ordinary small at 2½d. to 2½d. per lb., and dark pods at 2½d. Fair small to medium greenish leaf was held at 3½d. Of Alexandrian, 16 bales fair pale pods sold at 11d. per lb., and a single bale of sea-damaged went at 7d. per lb. Two bales of good green broken Alexandrian leaf went at 8d. Ten bales Alexandrian siftings sold at 2½d. per lb.

**WOOD OIL.**—A lot of 5 barrels "African balsam" lying in Liverpool was bought in at 30s. per cwt. London analysis showed sp. gr. at 15.5° C., 0.990; acid value, 48; and oil, 55 per cent.

**VARIOUS DRUGS.**—The following drugs were bought in:—Ten cases Chinese STAR ANISE at 55s. per cwt. for dull broken small; 25 bales BELLADONNA LEAVES (0.48 per cent.) at 5d. per lb.; 13 cases B.P. MILK SUGAR powder at 90s. per cwt.; 15 bags Indian PODOPHYLLUM ROOT at 92s. 6d. per cwt.; 10 bales thin decorticated LIQUORICE ROOT at 75s. per cwt.; 17 bales Cape STRAMONIUM LEAVES at 35s. per cwt.; 8 bales brownish UVA URSI LEAVES at 30s. per cwt.; 7 cases Ceylon CINNAMON BARK OIL at 3s. per oz.; 5 bales fair East Indian CHIRETTA, all more or less part country-damaged, at 5½d. per lb.; 13 bags small unpeeled CALAMUS ROOT at 55s. per cwt.; 5 bags fair JAMBUL SEED at 1s. 4d. per lb.; and 50 drums GURJUN OIL at 1s. per lb.





Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

### Assistants' Situations Abroad

SIR,—British pharmacists have one undoubted advantage over their colleagues in other countries, and that is the facility of finding a situation in foreign lands. Both from the point of view of general education and of professional knowledge, the experience obtained in a Continental pharmacy is of no mean value. I have therefore always counselled young pharmacists not to miss such occasions as frequently present themselves of taking a situation across the Channel. It is of importance, however, when trying to pick roses to avoid the spines. So many instances of dissatisfaction with foreign berths have come to my knowledge that a note of warning seems necessary. Taking up a situation in another country is a different matter from a similar undertaking in England, owing to the fact that the expenses of travel have to be taken into consideration, and consequently, even when strongly dissatisfied, the assistant cannot readily leave the place before the end of the engagement. Hence it is necessary to have a reasonably clear idea of the conditions of work. A mere glance at the exchange figures will show that there is no chance at present of saving money in France or in Italy from the salaries offered. This, however, may be considered of secondary importance, since the principal aim of the pharmacist who goes abroad is not to make money, but to see the world. For this latter purpose it is essential that the half-day weekly holiday, which is compulsory in England, but not in France or Italy, should be made a *sine qua non* of engagement. Otherwise the assistant risks having to work ten hours a day during the six weekdays, with occasional night duty in addition, so that on Sunday he is too tired to do anything but stay at home and sleep. When lodgings are provided by the employer, it is advisable to stipulate in advance that they shall conform to the usual English standards of comfort and decency, as I have personally seen one case in which a room without windows, situated in the basement, was provided, and another in which the assistant had to pass through the bottle-cellar before reaching his "dug-out." If the employer should fail to keep to the terms of the agreement or in other ways behave incorrectly, a reminder that the case will be brought to the notice of the local English Consul will be generally found to have a prompt and salutary effect.—

Yours faithfully,

V. COFMAN

London, S.W.9.

SIR,—I have just received my copy of the *C. & D.* for January 6, and note with interest the letter of "Tidapa" relative to posts in the Straits Settlements. Presumably his remarks would apply equally to the Federated Malay States. As one who has worked for several years in the country that "Tidapa" writes of, I can assure you that his remarks would not receive general endorsement by the chemists working out here. He exaggerates the cost of living and the badness of the climate. The temperature indoors I never find so high as 90°. My desk thermometer registers 82° or 83° practically every morning in the year when I arrive at the office. We are working through the hot season now, but the hottest afternoon I have not found to register higher than 86°. Of course, such a temperature day after day is trying, but I do not find it so unbearable as the really hot days of a fine English summer. The reason is that one is dressed appropriately. The mornings are sheer delight, and so are the evenings. Now as to the cost of living. Let it be said at once that no married man should come out on an ordinary first agreement. The cost of keeping a wife in this

country is very high indeed. Only single, young, adaptable and ambitious men should be accepted for first agreements. To such the country offers opportunities such as they probably will not get at home. The usual terms now for a first agreement are \$300, \$325, and \$350. So far as I know, the average merchant's assistant is on a similar basis. Living as a bachelor in a "mess" with two or three other men it need not cost him more than about \$115 a month (drinks not included). Transport would cost \$30 a month if rickshaws were always used, but most young bachelors run a motor-bike (you can buy a secondhand one in these days for less than \$150), and then his transport bill will be negligible—say \$6 or \$7 a month. Club bills are what he makes them: \$25 a month is ample, but if he has an insatiable thirst for whisky, his club and hotel bills can easily become a bigger item than all other expenses put together. The annual cost of dressing himself will be less than at home. All he will need is a dozen white drill suits (present cost \$5.50 to \$6.50 each) and a topee. These will last for three or four years. His European clothes can be put away till his return to "Blighty." Boots and shoes are made to measure most excellently by Chinese for less than they cost in England. There is no income-tax. Now these principal items of expenditure, as estimated, amount to considerably less than \$200 a month. And I am convinced that an unmarried man can live and be happy on \$200 a month, leaving a balance for investment of at least £12 per month. How many men in England even in decent positions can do that? Not many in the retail drug-trade, judging by the columns of the *C. & D.* supplement. The people who get disgruntled with their jobs in the East usually do so because they cannot or will not adapt themselves to the conditions that they find. Probably they more or less consciously become very homesick; they miss their old friends and associations, and resent everything that is strange and unaccustomed in their new life. Such people do not give themselves a chance to settle down into the new way of living, and the result is the occasional jaundiced letter that appears in the *C. & D.* The men who settle down to their jobs do not usually write to the papers; they are too busy and too contented, and they are really much more numerous than the class that "Tidapa" represents. Put briefly, a job in Malaya at \$300 a month with increments annually is quite a good opportunity for a young single man who is not too strongly attached to the kind of life that he is accustomed to live at home.—Yours faithfully,

OUT-EAST (19/3).

### Dispensing Errors

SIR,—If the Chemists' Defence Association cannot bring up a more formidable battery in defence of its members than an advice to plead "Guilty" to a 10 per cent. deficiency or excess in a particular chemical in a bottle of medicine, letters to the Press, which are discounted by reason of the official positions of the writers, are going to do more harm than good. I admire the calm assurance of some of the writers of these letters, but they seem to me to beg the entire question. I submit, quite humbly, that the defence, even under the Sale of Food and Drugs Acts, is that the so-called inaccuracies were not to the prejudice either to the health or pocket of the purchaser. That if the Sale of Food and Drugs Acts were intended to apply to dispensed medicines it has taken something like a quarter of a century for the authorities to discover the fact, and that in the meantime there has arisen an age-long practice of dispensing "bottles" of medicine containing as a whole the correct amount of drugs ordered and divided into the correct number of doses where, if one dose varied slightly from another, the patient got possibly a little more in one and a little less in the next, but the correct amount, on average, for the bottleful. That, no matter what chemists do now or hereafter, the dispensing doctor uses and has used exactly the same method, and that when he prescribed *he expected* and *knew* that his patient would get his or her medicine supplied in the accustomed manner. To comply strictly with the Sale of Food and Drugs Acts (as a sale),



medicines would be dispensed into a measure and put into a bottle that would usually hold more than the amount called for, of which marked subdivision would be impossible; and the patient would take the medicine thus "accurately" dispensed in a much more inaccurate dose than by the present practice, for it is scarcely worth while labouring the point to an explanation of the varying capacities of "spoonfuls" or the inability of the average person to use a graduated measure with any degree of accuracy. In the rare cases of the exhibition of large doses of potent drugs no one grudges the extra time and labour involved in sending out bottles marked in measured doses; but for the bulk of medicines ordered it is quite unnecessary to indulge in such a refinement—even if anyone could be found to pay for it. Minor details of defence which I have not come across as being used in these cases are: The percentage allowed by the B.P. of impurity and moisture in chemicals and the analyst's probable estimation as 100 per cent. pure; the fallibility of the condemnation on a percentage estimate alone; the fact that analysts, with all the time they require at their disposal and on whose certificates the prosecution rely, may make a 2 per cent. allowance for errors in their estimations, while *absolute* accuracy is asked from the busy dispenser. The only way out of the *impasse* is a discussion with the Ministry of Health on the matter, and an understanding (properly legalised if necessary) as to what is to be done which will be to the greatest advantage of the person who has to take the medicine.—I am, etc.,

ARTHUR H. JENKIN.

London, N.

#### Methods, Prices and Profits

SIR,—The *C. & D.* of February 24 contained many interesting letters, but there are so many errors and wrong ideas in them that it is best to clear the air. The chemist is expected to know the facts. "A. Macksee" is in error when he says it takes 20 per cent. to 22 per cent. to run a pharmacy; the actual figures of a rough average have been given scores of times in the *C. & D.*, by men from widely different types of businesses, as 10-12 per cent. (without owner's wages), or 15-17 per cent. (with £5 a week for working owner's wages). The gross profit has sunk to often less than 25 per cent., and when big firms pay 6 per cent. out in dividend there is at least 4 per cent. more put away in reserve, so that private businesses and big firms both earn about 10 per cent. on their capital. Leath & Ross seem to me to argue the matter very fairly, and to have far too small a margin left for themselves. "Returned Emigrant" jumps to conclusions; it is not suggested to do away with auditors, only to keep their zeal within bounds. To-day a traveller, whose statement contained 3s. 8d. charged to me in error for carriage, asked me to give him cheque for full amount, and he gave me 3s. 8d. cash—because of auditors. Common sense will ask why it could not have been deducted like empties or discount; but although the words of the answer may vary, the tune will be just the same—auditors. As for trade-union regulations, the difficulty is not a question of the liberty of the worker—about which we have heard too much—but to get the worker to give a full day's work for a too high day's pay, and the cost of living stays up because he doesn't. The whole question of methods and prices and profits is bound up with this wrong attitude of the workers, and I can, and will, prove in a future letter that the trade unions are the root cause of the unemployment in England to-day. The drug-trade, I can see, has many awkward questions to be settled in the near future, and it won't help us a bit to treat firms like Leath & Ross in any grudging spirit. Every class of worker seems to be full up of ingrafted wrong notions, but we are slowly getting over that as the facts become known to workers, who would have listened to the facts earlier if it had not been for our miseducation of the last twenty-five years. Twice this week smart young men of twenty-eight, both travellers for very big firms, told me that they had earned the right to stay in England by fighting four years for her, whether they had work or not. I tried it on a Jew traveller . . . just to see how the Jewish mind would

react. Says he: "I bet there's very few Jews on the dole, because a Jew would look at it like this. A dole means £50 a year, if I emigrate there's a chance of £150, £250, perhaps £500." Which proved once more how unerringly the Jewish mind grasps the main point of the argument, especially finance. The Jew said that these other travellers are, of course, not on the dole, but they argue as they do simply because the dole is there. Take it away, and they would argue on sound lines. The Jew has never been a prominent fighter in more recent times, although he joined up well in the Great War—and in the days of Moses there was plenty of fighting going on, the Jew *bei* 3 the defender as a rule. The Jew has the building-up mind; the true fighter has the tearing-down mind—the destruction of war does not worry him at all. It would worry the Jew. Now, where the Government is wrong is in expecting the fighting man to turn round after the fight and take to pioneering in a new country. Can't be done! We *have* got the pioneers, but we are not calling the right tune. It is only latent in some, and can be awakened, but you will not readily awaken it in the true fighting man to-day.—Yours truly,

JAY MACK.

#### Unemployment in the Drug-trade

SIR,—In reply to your correspondent, "Five Days for Nothing," will you allow me to say that there is no need for him or anyone else further to discourage those qualified men that are, like myself, out of employment (and receive no unemployment pay through no fault of their own), by saying that there is no work for them to do. The greatest difficulty with many of those men appears to be that there are no shops with living accommodation to be had at a reasonable rent and rates wherein they can start, and thus the progress of their lives is delayed when limited companies have more shops added to their names than they can well manage for themselves. Since the N.H.I. have been compelling the people to pay for a qualified man to dispense their medicines for them, we believe that those people have a right to demand what they pay for and to refuse a substitute; also that the Government inspectors are not slow to comprehend that the errors made in dispensing are not all due to the employment of qualified dispensers. But, somehow, none of us ever can realise and know the true value of a genuine chemist's business, or how that said value could easily be further increased by the wise employment of a qualified manager until we come to buy and pay for one of those much-neglected businesses that are often advertised as for sale.—I am, etc.,

JOHN WILLIAMS.

Carnarvon.

#### Legal Queries

*E. E. P.* (14/3).—Carbon tetrachloride is not a statutory poison, and its sale is not governed by any of the conditions of the Pharmacy Acts.

*A. T. R.* (7/3).—It is necessary for all purchasers of liquor morphine to make an entry in a register kept for that purpose. Doctors are not exempt from this regulation.

*R. H. K.* (10/3).—So far as we know there is no immediate prospect of reciprocity of pharmaceutical diplomas between Great Britain and Ireland, because the Irish Pharmacy Acts contain no provision to this end.

*B. & S.* (15/3).—TRADE-MARK REGISTRATION.—If the mark is accepted and after it has been advertised is not opposed, a further fee of 40s. is payable before a certificate of registration is issued.

*H. R.* (28/2).—The Medicine Stamp Acts are laws applying only to Great Britain, but any medicine liable to duty which is sold in Great Britain for export pays the tax unless exempted in any way.

*E. S.* (7/3).—Both remedies the formulas for which you send can be sold without infringing the Dangerous Drugs Act. You must, however, comply with the conditions of the Pharmacy Acts as to labelling.



*F. W. H.* (26/2).—The word "Kure Quik" implies curative properties when applied to a toilet cream, and would render the article liable to medicine-stamp duty.

*C. P.* (16/3).—Your method of registering poison sales under the present law is incomplete. When a "Dangerous" drug is ordered by a medical man for administration to patients by himself, it has been usual to interpret this as a wholesale transaction; but that would entail a licence. To put yourself in order you should enter it in the Poisons Book which you keep in conformity with the Pharmacy Act, 1868, with the doctor's signature, and make a cross-reference in your Dangerous Drugs Register. The procedure will be simplified if the Dangerous Drugs and Poisons (Amendment) Bill becomes law.

*H. G.* (13/3) inquires if he shall have to pay British income-tax on the rent of a house he owns in England, in case he permanently resides in Australia or South Africa, and if tax is deducted by his tenant what remedy has he? [It depends upon whether Dominion income-tax is payable in the colony in which "H. G." resides. If Dominion income-tax is paid, then relief from British income-tax is given to the following extent: If the Dominion rate of tax is not more than half the rate payable in the United Kingdom, an allowance is made to the extent of the rate of the Dominion tax. In any other case an allowance is made of half the income-tax payable in respect of the United Kingdom tax. The tenant will in this case deduct tax at the rate of 5s. in the £ when paying over the rent, and "H. G." must then send in a claim for repayment of tax to the extent stated to the Commissioners of Inland Revenue, Somerset House.]

*L. B. L.* (5/3) packs, among other things, extract of herbs in small bottles for making herb beer by the addition of sugar, barm and water, etc. One of the customers to whom the extract has been supplied has been told by an Excise officer that he must hold a licence before he can sell extract of herbs in small bottles. "L. B. L." asks if this is so. [It is not clear whether this extract is a wine essence or not. If it is a wine essence the rule is that it may be made and sold without licence provided the percentage of vegetable acid in it is not less than the percentage of proof spirit it contains (see *C. & D. Diary*, p. 232, "Compounding"). On the other hand, there might be liability to table-waters duty in respect of herb beer, which comes within the definition of table waters. The table-waters duty on herb beer is 2d. per gallon, and, as in the case of other table-waters, an Excise licence, costing 10s. annually, has to be taken out by anyone who wishes to manufacture it for sale. The safest course to follow would be for "L. B. L." to submit a sample of the extract to the Board of Customs and Excise through the local Excise Surveyor, and ask the conditions under which the article can be made and dealt in.]

*R. A. R.* (19/32) says that many of his customers purchase from him hops, extract of malt, treacle, etc., for the purpose of making beer, with the addition of other materials such as yeast, the quantity usually made at one time being four gallons. He asks if he is acting within the Excise law in selling in this way, and also whether there is any limit to the quantity which may be lawfully made. ["R. A. R." violates no Excise law in selling these articles, though there might be some question as to the supply of hops under the regulations of the Hop Controller. As to the customers who make the beer—presumably for private use—they would probably be liable to take out an Excise licence for the purpose of private brewing and to pay beer duty on the beer made. This depends on the annual value of the house occupied by the brewer. A private brewer who occupies a house of an annual value not exceeding £10 is not liable to pay beer duty, nor if the annual value, though over £10 does not exceed £15, provided the beer he makes is solely for his own domestic use. If the annual value of his house is more than £15 the private brewer has to pay beer duty on the beer brewed at the ordinary rate of £5 the standard barrel as well as take out a licence.]

## Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

*F. W. V.* (13/3).—Your suggestion regarding the *C. & D.* stocktaking sheets will be considered when a new edition of the sheets is being prepared.

*J. J. M.* (3/3).—RINGWORM LOTION FOR CATTLE.—The following is from "Veterinary Counter Practice":—

Sodii hyposulph. ... .. 4 oz.  
Aque ... .. 20 oz.

Solve. Apply to the affected parts.

*R. W.* (14/3).—ORANGE WINE.—The following formula is from "Pharmaceutical Formulas":—

Loaf sugar ... .. lb. xxij.  
Water ... .. Cong. x.

Dissolve by boiling and skim carefully. Pour the boiling syrup upon the rinds of 100 oranges, add the juice of the fruit, and allow to stand overnight. Add 6 oz. of yeast, ferment three days at a temperature of 65° to 70° F., then strain into a barrel and bung loosely. Add 2½ pints of brandy and rack for four months, when the wine is ready for bottling. Less brandy may be used, in which case 5 gr. of salicylic acid per pint should be added.

*F. P.* (14/3).—(1) An outline of the method of silver plating was given in the *C. & D.*, October 7, 1922, p. 518. (2) Cooley's Cyclopædia has been out of print for many years, but probably Spon's "Workshop Receipts" (4 vols.) would suit your purpose.

*J. G. J.* (16/3).—MEAT PRESERVATIVE.—The most suitable preservative for chopped meat is a mixture of equal parts of salt and borax. The amount employed should not exceed ½ lb. to every 100 lb. Further references to the matter will be found in "Pharmaceutical Formulas."

## Retrospect of Fifty Years Ago

Reprinted from  
"The Chemist and Druggist," March 15, 1873.

John Bell

[From the first of a series of articles on "Historical Chemists."]

Towards the end of 1798 John Bell opened his shop. On the first day his receipts amounted to ten shillings. . . . So complete was his despondency at the supposed hopelessness of his case that he did not think it worth while to light the lamps in the evening. A neighbour who had taken a kind interest in his proceedings, observing the shop dark, came in to inquire the reason, and on being informed, used all his endeavours to dispel these gloomy ideas, and declared that he would light the lamps himself rather than allow his friend to be overcome by such a trifle. This was all to no purpose, and in the morning the young chemist went to his uncle Sheppard, who had acted like a second father to him on previous occasions, and informed him of the determination at which he had arrived—to dispose of the shop as it stood, before he had made his position still worse by becoming involved in debt. He mentioned, as an additional source of discouragement, that he had been so cramped for want of capital that he had not been able to complete the arrangements of the shop to his satisfaction, and that it would cost at least £100 to remove a partition and add what was requisite for the convenience of business. He thought, as the situation was good, that a purchaser might be found having the capital required who would take the concern off his hands, and thus enable him to pay 20s. in the pound, and said he would rather continue in the capacity of an assistant all his life than continue in business at the risk of his creditors, with the prospect which stared him in the face of becoming a defaulter. His uncle, as he had previously done, encouraged him by all means to proceed—endeavoured to convince him that the evils which he apprehended were imaginary—assured him that he had a good prospect of success if he would only persevere, and insisted on his taking a loan of £100 to defray the expenses of the desired additions to his shop.





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6. Repeat business makes our work easier.
7. Repeat business is a sure builder of goodwill.

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Telephone: Avenue 4032 (5 lines)  
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Sole makers of **BAA**, purest and best  
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British Manufacture.  
Finest Quality.  
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Any quantity, spot or forward.

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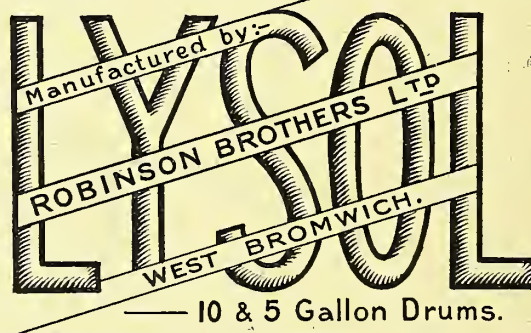
**PIERSON, MORRELL & CO. Ltd.**

The Original British Aspirin Makers,

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SAPONINE POWDER (Soluble)  
CREAM OF TARTAR 99/100% B.Ph.  
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Finest Essential Oil Lemon  
(NEW CROP).

We have large quantities for sale and  
are quoting particularly favourable prices.

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*Manufacturing Chemists*

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**ASPIRIN : HEXAMINE**

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**SALICYLATES**

**POTASS. PERMANG.**

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**CHEMICALS FOR ALL**

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# CHLORIDE OF LIME

IN  $\frac{1}{4}$ -lb.,  $\frac{1}{2}$ -lb., and 1-lb. CARTONS & ZINC CANISTERS  
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$\frac{1}{2}$ -lb. and 1-lb.  
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*Prompt delivery can be given.*

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**ACRIFLAVINE**

**EUFLAVINE,** (Neutral Acriflavine)

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## ALKALI PRODUCTS

These products are made by the Ammonia process and are distinguished by their great purity.

### PURE ALKALI, 58 Degrees

A dry, white powder: dissolves quickly and easily in water, making an excellent detergent for use by printers, bleachers, dyers, and for bottle washing. Is nearly equal to 99 per cent. carbonate of soda; is much used by glass, paper and soap makers. The best alkali for soap powders and washing powders.

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Retailers can obtain these products through any Wholesale House by specifying B. M. & Co.'s "Crescent" Brand.

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This Bicarbonate answers all the requirements of the British Pharmacopœia. It is a pure, refined and recrystallised salt, particularly free from metals or any base other than soda. This sodium bicarbonate is specially suitable for the preparation of granular effervescent preparations and salines, seidlitz powders and baking powders, and is well adapted for other medicinal and domestic purposes. It is the purest and cheapest sodium bicarbonate made.

### CAUSTIC SODA

Solid, 76/77 per cent.; 70/72 per cent.; 60/62 per cent.  
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### SILICATE OF SODA

## ALKALOIDS

### Fine Chemicals    Opium Derivatives

SALICIN  
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*Offer at first hand*

**ACETANILIDE  
ACID TANNIC  
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SODA HYPOSULPH.  
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## Drugs & Galenicals

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GENUINE EX FRUIT.

WE CAN OFFER TO SPECIAL ADVAN-  
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ALBARGIN*	NEOSALVARSAN*
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### HYDROGEN PEROXIDE

HYPOCHLORITE of SODA

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**MIANIN** (SODIUM PARATOLUOLSULPHOMONOCHLORAMINE),  
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*from Chemically and Physiologically tested Drugs*  
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DRUGS : CHEMICALS : OILS : SPICES.  
PROPRIETARY MEDICINES, DRUGGISTS' SUNDRIES.**

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European Manufacturers desirous of placing their goods in the American market would do well to communicate with us. Our outlet for goods is very large.

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# JAPANESE QUININE SALTS



**B.P. 1914**

Manufactured by

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AT COMPETITIVE PRICES FROM SOLE AGENTS

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# BRONNLEY'S *Santalettes*

*The Super  
Toilet Soap*

**46/- per gross**  
**6d. each retail**

*Apply for special  
terms for window  
shows.*



Santalettes have gained great favour in a short time with the discriminating public owing to their exquisite odour combined with a super quality of soap. They represent our renowned Santal Bath Tablets in toilet size.

**£10**

1st

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2nd

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**4 PRIZES OF  
10/- EACH  
CONSOLATION.**

For the best selling phrases for Santalettes—The Super Toilet Soap. Write your slogan on a postcard and send to us at once (any number of efforts admitted). Judging will take place on April 30th. The result will be published in this paper on May 12th. Our decision to be final—no correspondence entered into, all slogans to become our property.

**H. BRONNLEY & COMPANY, LTD.**  
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# GLOSSETTES

(Regd.)

THE ORIGINAL  
CUSHION-SHAPED**Licorice and Menthol Pellets**


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Have you had particular-  
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- 3** THE SALE IS HELPED BY STEADY AND INTELLIGENT ADVERTISING.  
**ASK YOUR WHOLESALE FOR OUR LATEST HANDBILL.**  
IT WILL INTEREST YOU AND IT WILL INTEREST YOUR CUSTOMERS.



*The very successful* **COLLOSOL** *treatment of*  
**RHEUMATISM, RHEUMATOID ARTHRITIS**  
and **NEURITIS** is being brought prominently  
before the medical profession this month.

*Adequate stocks  
to fill this profit-  
able script should  
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**COLLOSOL IODINE** 10 ozs.  
**COLLOSOL SULPHUR** 8 ozs.

Taken alternate weeks in a dosage of one to two  
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**COLLOSOL SULPHUR BATHS** 12.

One every fourth day.

**COLLOSOL SULPHUR CREAM** 3 ozs.

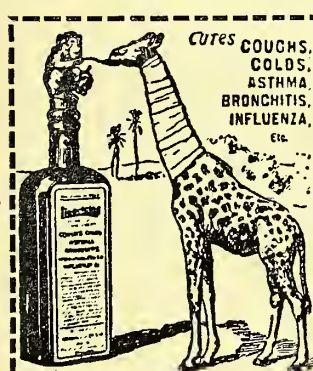
Well rubbed in each night.

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**Licoricine**  
ACTS LIKE  
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**For Coughs, Colds, Asthma, Bronchitis,  
Influenza, Whooping Cough, &c.**

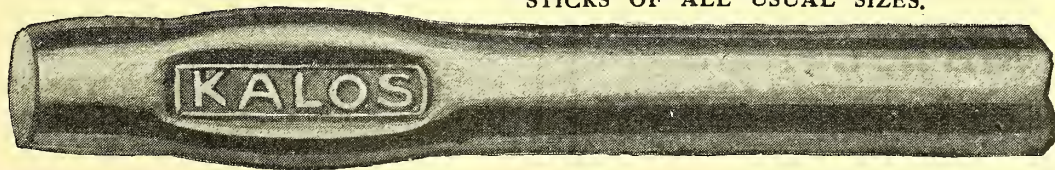
10½d. size	-	-	-	8/6	per doz. net.
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3/-	"	-	-	27/-	" "

£2 worth Carriage paid. £6 worth and upwards, subject  
to 5% discount. Minimum Retail Prices, 10½d., 1/3 & 3/-.  
N.B.—This allows the Chemist a profit of nearly 33%,  
or 4d. in the 1/- on £6 lots.

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Supreme Quality—Reasonable Price  
STICKS OF ALL USUAL SIZES.



In order to maintain the highest standard of Purity, samples of this Juice are periodically  
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submit samples for analysis of any shipment they may receive at makers' expense.



**POISONS and PHARMACY ACT.**

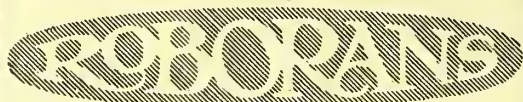
Privy Council Order, Jan. 1, 1921.

**DANGEROUS DRUGS ACT, 1920.**

Regulations of May 20, 1921. (Operative Sept. 1, 1921.)

**Dr. J. Collis Browne's  
CHLORODYNE**

is not affected by above Order or Regulations.

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NEW & RARE  
MEDICINES**of French, Italian and Russian Origin.***ROBERTS & CO.,**  
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For **WHOOPIING COUGH**, Asthma, Catarrh  
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(Ungt. Menthol, Nicotin, Camphor Monobrom, Castor,  
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A new heart sedative for external use.*Sole Agents; DOUCH LTD.,*  
**9a OLD BROAD ST., and 8 UNION COURT, LONDON, E.C.****NURSE HARVEY'S MIXTURE**A safe, simple, and reliable remedy for Children's  
Ailments is advertised so extensively in the daily  
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retailer without effort on his part.The selling has been done before the mother  
reaches the chemist, and, having supplied her, it is  
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has a profitable return on a quick turnover.*For Direct Terms apply to—*  
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# ROBOLEINE ADVERTISEMENTS

Are now appearing in the high-class weekly papers.  
Why not take advantage of this publicity and make easy and profitable sales?

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## ROBOLEINE

THE ONLY TRUE BODY-BUILDER

ROBOLEINE is not a new-fangled patent medicine. It is not a mere stimulant or tonic. It is the concentrated essence of the most valuable food products in existence. It consists of Red Marrow, "Cream of Milk," Egg Yolk and neutralised Lemon Juice, and is therefore a perfectly balanced natural FOOD, containing the three vitamins at present known to science. The Medical Profession has consistently recommended Roboleine for the past 15 years.


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**ROBOLEINE WILL BUILD YOU UP**  
and your Doctor will tell you that it will.

Do not put off taking the only sensible precaution against Winter Illness. When you take ROBOLEINE you fortify your system by the same means that all the great Sanatoria use and have used for 15 years. For rickets in children and in all cases of malnutrition ROBOLEINE is the greatest benefactor. Doctors and nurses are all familiar with its body-building properties.

Your CHEMIST has ROBOLEINE or we can get it for you quickly. ASK HIM.

Write for free sample and literature, post free.  
Sole Manufacturers: OPPENHEIMER, SON & COMPANY, LTD.,  
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## WINDOW DISPLAY TERMS 50%

Profit on outlay—a generous profit on a really sound article—You know what ROBOLEINE is—The doctors know it and prescribe it—The Sanatoria and Welfare Centres use it. Will you help to make the present advertising campaign a success by having a window display?

MAY WE SEND YOU FURTHER PARTICULARS?

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179 Queen Victoria Street, LONDON, E.C.4.

## Big Offer for Window Displays

Until further notice we are presenting absolutely free, with each display order, one dozen Glycola Shampoo powders for each

- 1 doz. 1/4 bottles of Glycola
- 2 doz. -/8 bottles of Glycola
- 1 doz. -/10½ tins of Health Salts.

Also usual 10% discount off m.w.p. Don't miss this profitable line of business.



## CLARK'S GLYCOLA

is one of the best selling toilet preparations on the market. It is always in good demand and carries an excellent margin of profit. Sell it and display it. It will pay you well.

## Dr. DE JONGH'S

LIGHT BROWN

## COD LIVER OIL

IN IMPERIAL HALF-PINTS, 4/-

**ANSAR, HARFORD & CO., LTD.**

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THE GREATEST PRODUCTION

IN THE WORLD.

THE BEST. THE CHEAPEST.

Prices and Samples sent on application to—

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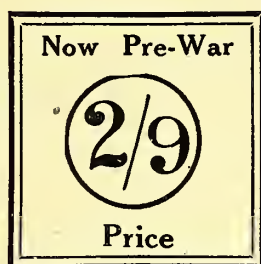
Major CYRIL SANKEY, late Royal Artillery, General Manager.



# Kutnow's Powder

On the  
P. A. T. A.

Widely  
Advertised



Reduced Price means increased sales. See to your stock at once to meet increased demands.



Write for Dummies, Show Cards, and particulars of Bonus Scheme for your Window Display.

**S. Kutnow & Co., Ltd.**

**41 Farringdon Road, London, E.C.1**

## TABLETS OF DISTINCTION

**I**N quality, pharmaceutical elegance and attractive presentation, M & J Tablets have a distinction of their own. The margin of profit is invariably satisfactory, and in some instances is unusually wide. We shall be pleased to quote prices either for M & J Branded Tablets or Chemists' "Own Name" trade. May we put your name on our List of Chemists to whom we regularly mail "Special Offers"?

### ASPIRIN

Made from super-quality Aspirin. Each Tablet contains an accurate 5 gr. dose.

### CASCARA SAGRADA s c

Scientifically prepared from the extract of bark which has matured for three years to ensure an entire absence of griping.

### AMMONIATED QUININE

Sugar-coated—dr. r. A useful counter line in the spring time.

### IODISED THROAT TABLETS

The only Tablets of this character which are regularly prescribed and used by the Medical Profession.

### PHENACETIN

Also in combination with Caffeine or as A.P.C. Tablets (Aspirin, Phenacetin and Caffeine).

**MENLEY & JAMES, LIMITED**

64, HATTON GARDEN, LONDON, E.C.1.



# DOLS' FLANNEL

(Volatalise)

High radio activity through the skin to the lower layers and organs.

**Cures** { RHEUMATISM, BRONCHITIS,  
NEURITIS, SCIATICA, LUMBAGO.

Sold in Fancy Boxes at **1/3** and **3/-**, also by the yard at **12/-**,  
and made up into every garment sold by the Chemist.

Samples and Wholesale Prices on application.

**SEE OUR STAND** at the Hospital, Nursing and Midwifery  
Exhibition. **STAND No. 1, Lower Hall, Central Hall,**  
:: :: Westminster, April 3, 4, 5, 6 and 7. :: ::

**DOLS LIMITED, Huddersfield, England.**

THERE ARE MANY MAKERS OF  
OINTMENTS, BUT ONLY ONE

## "SPUN BRAND"

the sales of which, in spite of numerous imitations,  
continue to increase enormously year by year—the  
reason is obvious.

Let us quote you in bulk or packed in decorated tins.  
Customer's own name and address can be printed on  
specially designed tins for 25 gross assorted.

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Telephone :  
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Shen Works, Tower Bridge Road, London, S.E. 1

Telegrams :  
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London.



# Ki-uma Sales rapidly increasing

There  
is a  
Reason.

THE remarkable curative qualities of Ki-uma, the new Tropical Herbal Ointment for Rheumatism, Neuritis and kindred Ailments, together with the sustained Advertising Campaign, have created ever-increasing sales throughout the country. Get your stock of this rapid seller now; every tin sold brings new customers by recommendation; this is proved by the testimonials below.

Full particulars of generous terms offered sent on request.

## Remarkable Medical & other Testimony.

### A Norwegian Doctor writes :—

Røyken, January 24th, 1923.  
I have used Ki-uma myself for a painful contusion of a joint and found it gave wonderful relief from pain.

Letter from well-known Cheltenham Chemist :— December 4th, 1922.  
Kindly send 3 doz. Ki-uma. ——— Salts will have to look to its laurels as the champion seller.

### A Bath Chemist writes :—

November 11th, 1922.  
Ki-uma is proving a good seller. Since we started our window and counter display we have sold 10 doz. in the last month.

### Note by Editor, "Chemist & Druggist" :—

November 11th, 1922  
We were shown a sheaf of complimentary letters from well-known people, including several medical men of standing, which seems to show that Ki-uma has the power of quickly alleviating rheumatic disorders.

### S. M. J. Woods, the well-known Athlete, writes :—

September, 1922.  
My doctor gave me a pot of Ki-uma Ointment for Rheumatism. I have found it most successful in my case. It is first-rate stuff, as it rubs in so well and quickly relieves pain.

### A Bath Physician states :—

I have prescribed Ki-uma for some of my patients and have obtained most excellent results.

### Another Bath Doctor writes :—

September, 1922.  
For years past I have suffered from a chronic skin affection which hitherto has resisted all treatment. I tried Ki-uma and am not exaggerating in the least in saying that it has proved most efficacious.

### Talboys, Keevil, Trowbridge :—

October 2nd, 1922.  
The Countess of Kingston is glad to be able to say that she has found the Ki-uma Ointment of great benefit for her rheumatic knee.

### Sir Edwin A. Speed writes :—

October 10th, 1922.  
I have been meaning to write and tell you that Ki-uma has completely cured my Tennis Elbow, which has defied me for two years. It really is rather wonderful.

### A lady from Bury St. Edmunds writes :—

December 30th, 1922.  
Ki-uma has acted like a charm with me. It first cured Neuritis in my hands. Later I was attacked with Rheumatism in my left leg. I can only describe it as torture. I continued to apply Ki-uma and now the pain has quite gone.

### Remenham Rectory, Henley-on-Thames :—

January 8th, 1923.  
I have found Ki-uma very effective. I was troubled with an acute attack of Rheumatism in my knee. I tried Ki-uma with extraordinarily good results. I am now free from pain. The stuff must contain some wonderful emollient properties.

### An eminent London Physician writes :—

London, August, 1922.  
I have used Ki-uma in my own case for Rheumatism associated with the muscles and joints of my neck.

### A Physician from Harrogate writes :—

January 4th, 1923.  
Your Ki-uma has been brought to my notice by a colleague who has used it successfully in an obstinate case of Arthritis of the hip-joint.



*Free from pain  
quite young again.*

Retail Price 3/- per tin  
on the P.A.T.A. List.

**KI-UMA LTD.** 6 Milsom St.,  
**BATH.**

D.A.2245.



**THERE IS NO CURE for BAD TRADE**

if you persist in stocking goods which are beyond the means of your customers.

**BRISK BUSINESS will certainly come**

if you offer them their needs at prices in keeping with their reduced buying capacity.

**"RED BAND" MAGNESIA**

—the only big selling, big profit line—which gets the results—will make your cash till busy again—and what is more important, your customers get complete satisfaction in speedy relief from their Digestive complaints and also in the reasonable cost of the remedy.

**THEY TELL OTHERS!—The Best Advertisement for Your Pharmacy.**

"RED BAND" is sold Retail at 4½d., 7½d., and 1/3 per box.

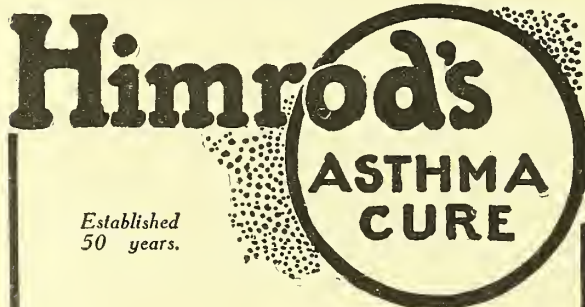
Cost you **30/-** per gross. **50/-** per gross. **90/-** per gross.

Bonus of 12 with each gross.

Roughly 100 per cent. on Costs.

Order a small lot—show it—recommend it—Then you will be a pessimist no longer.

**RED BAND CHEMICAL CO., Richmond Terrace, Edinburgh.**



**I**T is a powder to be burned and the fumes inhaled without any bad after-effects. Recommended by physicians throughout the world.

"I have tried every remedy ever invented, and 'Himrod's Cure' is the only one in which I have absolute confidence."—EMILY FAITHFUL.

"This is an excellent remedy for Asthma."—Sir MORELL MACKENZIE (in his Clinical Lecture at the London Hospital and Medical College).

"The only relief I could get; if I had only known of it before."—LORD BEACONSFIELD, in his dying moments.

**Himrod Manufacturing Company,**

SOLE PROPRIETORS,

270 WASHINGTON STREET,  
JERSEY CITY, N.J., U.S.A.

**A CANADIAN MESSAGE**

**To the Retail Chemists and Druggists of Great Britain**

**DURING** the period of the Great War we were unable to ship any of our Pharmaceutical Products to England, and their use and sale were very much reduced as a consequence.

We are now constantly detailing and sampling Wampole's Specialties to the Medical Profession throughout Great Britain, with gratifying results.

The leading wholesale druggists of England are carrying a full stock of our preparations, and are prepared to fill orders promptly from retail chemists.

Cod Liver Preparation, 16 oz.  
Cod Liver Preparation, 8 oz.  
Phospho-Lecithin, 16 oz., unstamped.  
Phospho-Lecithin, 8 oz., unstamped.  
Creo-Terpin, 16 oz., unstamped.  
Creo-Terpin, 8 oz., unstamped.  
Magma Magnesia, 16 oz., unstamped.

MADE IN CANADA BY

**Henry K. Wampole & Co., Ltd.**  
Manufacturing Pharmacists,  
PERTH, ONTARIO, CANADA.



# 99%

## *Profit on*

# 'CEPHOS'

*The Safe, Certain  
& Scientific Remedy*  
for

**Headache,  
Neuritis,  
Neuralgia,  
Rheumatism  
and Influenza**

*Study these liberal  
Trade Terms:*

Minimum Retail Price 1/3 and 3/-. Price to you per doz. 12/- and 30/-. Bonus of 10/- on £5 worth for fourteen days' window display.

\* Loose Powders retailed at 2½d. each yield 99% profit.

Good, forceful advertising is creating a national demand for "CEPHOS." Stock NOW and ensure your share of the big business.

*Send Postcard for Sales-compelling  
Window and Counter Material, to*

**Cephos Ltd., Blackburn.**

*Sole Distributing Agents for territory  
other than Lancashire & Yorkshire:*

**THOS. CHRISTY & CO.**

4/12 Old Swan Lane,  
LONDON, E.C.4

# two lines

that go hand-in-hand  
towards bigger profits

**W**Henever you sell a bottle of CARMEX you have a certain customer for Semprolin Petroleum Emulsion. For CARMEX is well known among mothers as a most reliable remedy for their children's digestive disorders, while Semprolin Emulsion only needs an introduction to ensure its ready use by the adults of the family.

Both Emulsions have proved so efficacious in digestive disorders and have met with such approval from both nursing and medical professions alike, that they can easily be made a source of considerable profit to you.

CARMEX for the young child—Semprolin Emulsion for the nursing mother, who frequently needs correctives during this trying period.

*Send for Price List of these remunerative lines, which are now being regularly prescribed by medical men everywhere. Our window show bonus offer contains suggestions that will particularly appeal to you.*

# Carmex

FOR INFANTS

# Semprolin

## EMULSION

**THE SEMPROLIN CO. LTD.**  
18 LEATHER LANE HOLBORN LONDON E.C.1



# OILED SURGICAL COTTONS OILED SURGICAL SILKS

**EDWARD MACBEAN & Co., Ltd.**

*Manufacturers of Oil-proofed and Rubber-proofed Cloths of every description.*

**London Office—6 & 8 Lime Street Square, E.C.3.**

**123-125 Howard Street - GLASGOW.**

Telegrams:  
"Diamond, Glasgow."

"Stormproof, Led, London."

Codes: Lieber's 5-Letter, ABC (5th Edition), and Marconi.

Telephones:  
8387 Central.  
1995 Central.



## NORVIC

Regd.

### CRÉPE BINDERS

For all cases where support, elasticity and durability are needed.  
∴ Rubberless and washable. ∴  
All widths up to 11 inches.

**Wholesale only.**

Sole Manufacturers:  
**GROUT & CO., Ltd., Gt. Yarmouth.**

London Agent:  
**T. S. Eastaway, 35 Wood Street, E.C.**



**FULLY  
STOCKED.**

**Wholesale  
and  
Export**

**21 Ely Place,  
London, E.C. 1.**

Phone: Holborn 4637.

Telegrams: "Roborans,  
Smith, London."

**Edward Taylor**

FACTORY: LTD.  
SALFORD, MANCHESTER

LATEST  
PRICE LIST  
ON  
APPLICATION



# The SURGICAL HOSIERY Co. Ltd.

(Department B),

RUSSELL STREET, NOTTINGHAM.

Manufacturers and Patentees of

## SURCO SEAMLESS HOSIERY

In Light qualities for Summer wear, or Stout for hard wear.



Old Style  
With Seams



"Sureo"  
Patent Seamless

*Price List and Measurement Forms on Application.*

Articles made to measure dispatched in 24 hours.

### HAVE YOU SEEN IT?

OUR 1923 PRICE LIST IS NOW READY

## RUBBER GOODS

OF EVERY DESCRIPTION.

MAY WE SEND YOU A COPY?

THE LONDON RUBBER CO., 183 Aldersgate St., London, E.C.1.



### THE ALTRINCHAM RUBBER CO.'S NOTED TOY BALLOONS

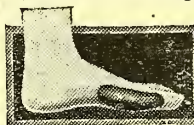
Prices : 1d., 2d., 3d., 4d., 6d., 9d. & 1/- each, less 33 1/3% discount to the trade.

Customers' own Advertisement printed on at a Nominal Price.

Address : Mossburn Buildings, ALTRINCHAM.

### DR. SCHOLL'S BUNION REDUCER

Relieves and reduces bunions and enlarged joints. Eliminates shoe pressure. Made of finest surgical rubber. Men's and Women's Sizes: Rights and Lefts. Price 2/6 each.



**Dr. Scholl's**  
*Foot Comfort Appliances*

are nationally advertised in all the leading newspapers and periodicals. Link up with this big publicity by featuring "Scholl" goods strongly in your window-dressings.

Write to-day for Illustrated Catalogue.

The SCHOLL MFG. CO., Ltd., 1-4 GILTSPUR STREET, E.C.1.

## J. H. HAYWOOD, LTD.

CASTLE GATE,  
NOTTINGHAM.

INVENTORS  
OF  
SEAMLESS  
ELASTIC  
HOSIERY.

SURGICAL APPLIANCE  
MANUFACTURERS.



### Specialities :

Abdominal Belts,  
Trusses,  
Suspensory Bandages,  
Braces,  
Elastic Web Bandages,  
and Druggists' Sundries.

WRITE FOR PRICE LIST.

ESTABLISHED 1833.

TELEGRAMS: "APPLIANCE NOTTINGHAM."



# SOLUBLE QUININE PESSARIES

The "SAFEGUARD" Brand.



The "Safeguard" Pessaries (of which we are sole proprietors) are compounded according to a formula which experience has shown to be absolutely the best for the purpose. Nothing but the purest drugs being used in them, they never fail, and can be recommended to customers with the utmost confidence.

PRICES			per-dozen boxes	£	s.	d.
				1	0	0
				19	6	
				19	0	

Special Quotations to Shippers and Wholesale Dealers.

CARRIAGE PAID ON ORDERS OF £3 AND UPWARDS.

A discount of 5 per cent. for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for New Price Lists of Druggists' Sundries, Toilet Requisites, Rubber Goods, Cut Sheet Rubber Appliances, etc.

## BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

### THE "PORTIA" ADJUSTABLE BABY'S BALANCE

Also  
complete  
with  
Netted  
String  
Hammock.



Write  
for  
Prices.



Always  
Accurate.



The  
BEST  
and the  
Handiest  
Portable  
Baby's  
Balance.



Obtainable from all Wholesalers.

**SOLPORT BROTHERS, Ltd.**  
184/190 Goswell Road, LONDON, E.C.1.

### A. C. COSSOR & SON

Established 1859.

High Class

### Clinical Thermometers



PATENT



### THE ACCOSON ASEPTIC CLINICAL.

The Thermometer is sterilised each time it is placed in the case, and the markings on the tube are not defaced. Any 4" clinical will fit the case.

Prices on application or can be obtained from all Wholesale Houses. ORIGINAL PATENTEES OF EASY SET CLINICAL THERMOMETERS. Contractors to all Government Departments.

Accoson Works, Vale Road, London, N.4.

Telephone : Tottenham 1880.



# What are the wild waves saying?

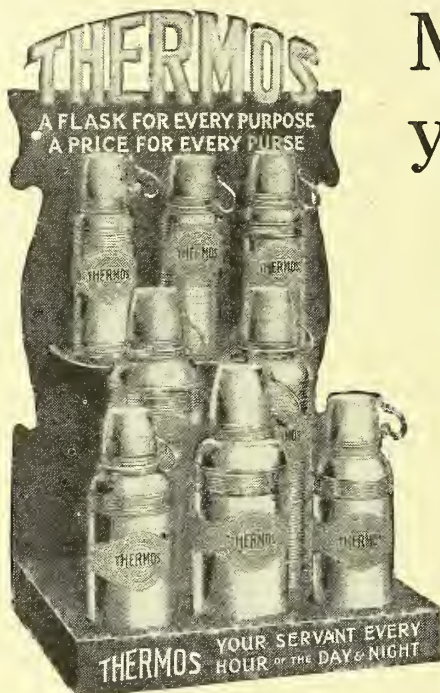


*Your Enquiries Respectfully Solicited*

## Arthur Berton Ltd.,

Tel Nos.: Clerkenwell 1347/8/9. 15/17, Worship St., London, E.C.2.  
Tel Add.: "Aybelim, Finsquare London."  
84, Miller St., Glasgow.  
36, Chapel St., Victoria Bridge, Manchester.





## Make room in your window

for this new Display—the hand-somest we have yet produced. The shining nickel Thermos Flasks against the vermilion stand make a magnificent attraction. It will help you to sell the higher-grade Thermos Flasks—with a proportionately greater profit.

*Write us for descriptive leaflet.*

**THERMOS**  
LIMITED

12/14 Denman St., Piccadilly Circus  
London, W. Telephone : Regent 2578

### IMPORTANT FOR YOU

#### THE PROPRIETORS OF **Keene's One-Night Corn Cure**

desire to repeat their offer to exchange your stock of 9d. tins for their new 1/3 tin (which is much better value), and hope you will avail yourself of this opportunity to secure (free of cost) a more saleable package.

The price of the new 1/3 tin is  
11/3 per dozen (P.A.T.A.)  
which guarantees you a  
**PROFIT OF 33 1/3%**

*Write for Bonus Terms to :*

**Keene's One-Night Cures Ltd.**  
52 GRAY'S INN ROAD, W.C.1.

### Display these on your Counter

A trial purchase ensures a regular customer

12 Perfect Blades  
in every  
doz.



They have a super keenness that ensures perfect service and makes them different from and better than all others

The easy Blade  
for tenderskins

Manufactured by—  
**JOHN WATTS**  
Dept. 3,  
Lambert Works,  
SHEFFIELD  
Established over 150 years  
London : 24 Redcross  
Street, E.C.1.

RETAIL PRICE **3/6** PER DOZ. ALLOWING 50% PROFIT ON COST TO THE DEALER.

### SHOWCASES

UPRIGHT CENTRE CASES, WALL CASES,  
**GLASS COUNTERS, MIRRORS,**  
WINDOW FITTINGS, GLASS SHELVES,  
**SHOW STANDS, DRAWERS, DESKS,**  
CHECK TILLS, &c. **Immense Stock.**  
**NEW and SECOND-HAND.**

Ready for Immediate Delivery.

For Sale or Hire.

**FREDERICK MAUND,**  
169 Old St., LONDON, E.C. 1.



# THE "MATER" CLINICAL

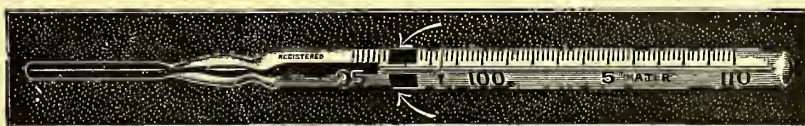
MAGNIFYING FRONT. NATIONAL PHYSICAL LABORATORY GUARANTEE.  
EASY TO READ. EASY TO SHAKE DOWN.

This series is the only **Clinical** Thermometer on the

**P. A. T. A. LIST**

**AN ADEQUATE MARGIN OF PROFIT BEING GUARANTEED**

REGISTERED No. 553039



PRICES OF THE "MATER" CLINICAL IN METAL CASES:—

**Retail** ... 2 min., 4/6; 1 min., 5/6; ½ min., 7/- each.

**Wholesale** ... „ 27/-; „ 33/-; „ 42/- per doz.

**PERKEN, SON & CO., Ltd.,** 94 HATTON GARDEN,  
LONDON, E.C. 1.

Established 1852.

Telephone: 724 Holborn.

Contractors to H.M. Government.

Telegrams: "Optimus, Smith, London."

Write for Prices of every description of **CLINICAL** and **OTHER THERMOMETERS**

## Our Plant is planned for Big Production

The fast and continuous running of specialised machines enables us to reduce overhead costs to a minimum.

That is how we can afford to give you such advantages of price and quality in our own particular line—long runs in letterpress or offset litho.

If you are a large user of—

**BAGS, LABELS, CARTONS or WRAPPERS**

for Soap, Medicines, Drinks or any similar proprietary article, ask us for a quotation.

Write  
Dept. C.

We have no outside representatives.

It will pay you to send your specification and let us quote.

**The Berkshire Printing Co. Ltd.**

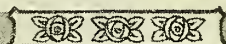
**King's Road, Reading.**



# BOTTLES

*and Glassware  
of Every Description  
for The Trade*

WHOLESALE ONLY



*In all colours*

MEDICAL FLATS

PANELS

VIALS

POISONS

LYSOLS

LIMES

KALIS

MEXICANS

PERFUMES

FEEDING BOTTLES

*&c., &c.*



## LAX & SHAW

LIMITED.

*Albert Glass Works,  
Hunslet, Leeds.*

BEILINDA GLASS WKS. HUNSLT. CLARENCE GLASS WKS. HUNSLT.  
TELEGRAMS FEEDERS, LEEDS. TELEPHONES 27047, 23080

# GLASS BOTTLES

Medical Flats, Panels,  
Vials, Limes, Poisons,  
Honey Jars, Screw  
Pomades, etc., etc.

## TOM LAYCOCK & CO.

Cabinet Chambers,  
Basinghall Street, LEEDS.

## C. MELIN & CO.

ESTABLISHED 1865.

7 INDIA ST., CRUTCHED FRIARS,  
LONDON, E.C. 3.

VACUUM FLASKS

GLASS BOTTLES

GLASS AMPOULES

TUBES

PUSH-ON CAPS  
AND CORKED.

DIRECT FROM THE WORKS.  
WHOLESALE AND EXPORT.



# THE TRADE STOREHOUSE

## For GLASSWARE *Is Jules Lang & Son.*

KALIS, LIMES, MEDICALS, POMADES, TABLETS,  
CANNONS, VIALS, BRILLIANTINES, ESSENCES,  
SHOWGLASSES, TUBES, FEEDERS,  
CHEMICAL & LABORATORY  
GLASSWARE, SUNDRIES, &c.

*Composition  
Stoppers,  
Syringes,  
Postal Accessories,  
&c., &c.*

**GLASSWARE for all TRADES.**

## JULES LANG & SON

CHARLTON PLACE, ISLINGTON, LONDON, N.1.

Telephone: North 2770-2 (3 lines).

Codes: A B C, 5th Edition, Scott's 10th Edition (1906).

Telegrams: "Assorted, Phone, London."

Bentley's Complete Phrase Code.

# BOTTLES

GOOD SECOND QUALITY,  
6 oz. and 8 oz., Graduated Tablespoons,

PER **15/-** GROSS

Hand Made and Accurate Measure.

**I. ISAACS & CO.,** Glass Bottle  
Manufacturers,

106 Midland Road N.W.1.

OLDEST BOTTLE HOUSE IN THE TRADE.

ESTABLISHED 100 YEARS.

Phone: Museum 4209.

Telegrams: "Isaglasbot, Kincross, London."

*KleerVue*  
Pro.  
Patent

## ALL GLASS DISPLAY CASES

Make your Counters Sell your Goods.  
Display your Goods in a Sanitary way.  
Increase your Sales and Prevent Pilfering.

SEND FOR PARTICULARS.

**HILL BROS. GLASS CO., LTD.**

67, 68, 69 SUMMER LANE,

Tele: Central 3188.

BIRMINGHAM

# A. Ruch & Co

ESTABLISHED 1880.



G. GRANT FORSYTH.  
R. BRUCE FORSYTH.  
W. FRASER FORSYTH.



## GLASS BOTTLES

of every description.

ENQUIRIES INVITED

28 Martin Lane, Cannon St., London, E.C. 4.

Telegrams: "Sennock, Cannon, London." Phone: Central 4799.



# SPRING SALINES

—you can buy them best from

# GOODALL'S

Already our 1923 Saline trade is in full swing—old customers are buying again and new ones are finding they 'cannot do better than GOODALL'S.'

GOODALL'S Saline lines are all perfectly packed for the high-class chemists' trade; the quality is unvarying and faultless, and the prices—revised right up-to-date—are the keenest on the market.

## FOR ALL SALINE LINES

—packed or in bulk—

**HEALTH  
S A L T S**

**CITRATE OF  
MAGNESIA**

**SEIDLITZ  
POWDERS**

**EFFERVESCENT  
SALINES**



Ask for GOODALL'S Quotations.

**GOODALL,  
BACKHOUSE & CO.  
LEEDS.**

**WATERGLASS:** If you have not yet got in your stock, order now from GOODALL'S. We offer the best-looking pack—lever lid printed TINS—at very close prices. Ask for sample label. Showcards FREE with every order.



# THE CHEMIST AND DRUGGIST SUPPLEMENT

42 CANNON ST.  
LONDON E.C. 4

MARCH 24, 1923

*This Supplement is inserted in every copy of The Chemist & Druggist.*

## EASTER HOLIDAYS

NEXT WEEK THE CHEMIST AND DRUGGIST SUPPLEMENT will be put to Press a day earlier than usual. Therefore any advertisements intended for the SUPPLEMENT of March 31 should reach this Office not later than

N.B.—The Offices will be closed from Thursday evening, March 29, to Tuesday morning, April 3

**10 a.m. on Wednesday, March 28.**

ADVERTISEMENTS RECEIVED LATER will be INSERTED in the ISSUE of APRIL 7.

## EARLIER CLOSING FOR PRESS.

intended for the Supplement must reach us not later than the

Will advertisers please note that until further notice it will be necessary that Advertisements

**FIRST POST THURSDAY MORNING.**

## CHEMISTS' TRANSFERS.

**Messrs. ORRIDGE & CO., 56 Ludgate Hill, E.C.**

Telephone No.: City 2283.

May be consulted at their Offices on matters of SALE, PURCHASE and VALUATION

1.—LONDON, N.—Cash Retail Business in busy shopping centre; returns about £50 weekly under management; net profit, 25 per cent.; double-fronted shop; large, attractive windows; held on lease at moderate rent; price about £1,500, or valuation terms entertained.

2.—FINSBURY PARK (Near).—Cash Retail and Dispensing Business, returning at the rate of between £1,500 and £2,000 per annum; single-fronted shop, fitted in mahogany; good working stock; rent £52 per annum; held on lease; no near opposition; offers invited.

3.—CITY PHARMACY.—Retail and Dispensing Business, with small export trade; returns exceed £5,000 per annum; gross profit over 50 per cent.; well-fitted shop, heavily stocked; held on lease; price £3,500, or near offer.

4.—CRYSTAL PALACE DISTRICT.—General Retail Business with N.H.I. Dispensing; returns £1,400 at full prices; single-fronted shop, well fitted and fully stocked; good living accommodation; garden; held on lease; rent, £28 per annum; further details on application.

5.—LONDON, S.E. (Good-class Residential Suburb).—Old-established Business, Retail and Dispensing; gross receipts average between £4,000 and £5,000; present rate less; there is a good residence, with private entrance; price to be agreed equitably.

6.—LONDON, E.—Family Retail Trade with N.H.I. Dispensing; returns £1,000 per annum, plus N.H.I.; net profit, £400; single-fronted shop; estimated value of stock, £900; rent, £40 per annum; price £1,200.

7.—SOUTH WALES.—Cash Retail Business; returns, present rate £25 weekly; net profit, 25 per cent.; lock-up shop, well fitted and stocked; moderate rental; very little opposition; price £950.

8.—NORTH-WEST COAST.—Old-established Business, comprising Light Retail, Photographic and Optical, also Wine Licence; held by present vendor upwards of 25 years; returns average £3,000 per annum; gross profit, one-third; terms, £1,550 for the business, which is about the value of stock and fixtures, and £1,850 for the property.

9.—GLAMORGAN.—Ready-money Business, including N.H.I. Dispensing, with Kodak Agency and Wine Licence; returns last year £2,200, with scope for extension; net profit, after paying all expenses, £550; lock-up shop; rent, £75; long lease; terms, valuation of stock and fixtures and sum for lease and goodwill.

10.—KENT COAST.—Retail, Dispensing and Photographic Business; returns about £2,000 per annum; net profit approximately 25 per cent.; scope for increase; living accommodation; moderate rental; held on lease; price, £1,100, or near offer.

11.—GREAT WESTERN MAIN LINE.—Very old-established Business, situate in the centre of a thriving commercial town; gross receipts average £6,500, which can be easily augmented under energetic management; price required for the business, to include Freehold Premises, £15,500.

12.—DEVON.—Cash Retail Business; returns about £1,500 per annum; scope for extension; moderate rental; living accommodation; price to be agreed equitably.

13.—HOME COUNTY (Large Town).—General Retail, Dispensing, and Prescribing Business; very old-established; returns, last year, £3,255, at usual prices; double-fronted shop; heavily stocked; new lease will be granted at a moderate rental; price to be arranged.

14.—SOUTH WALES.—Retail and Dispensing Business, with Wine Licence and Photographic; good opening for Optics; returns average £30 weekly, with scope for increase under energetic management; excellent house; price £1,500.

## VALUATIONS FOR STOCKTAKING.

Messrs. O. & Co. desire to emphasize the necessity of a periodical Statement of Account by which means alone Profit, the value of Business, &c., can be determined. Involving as this does the labour of Stocktaking and Valuation, it is often omitted and eventually becomes the cause of confusion and loss.

Messrs. O. & Co. are prepared to undertake these essential duties and make Special Terms for such services.

**ORRIDGE & CO., 56 LUDGATE HILL, LONDON, E.C. 4**



# BERDOE & FISH BRETT & CO.

*Valuers and Transfer Agents,*

41 Argyle Square, KING'S CROSS, W.C.1 Telephone: 651 Museum

1.—SOUTHERN COUNTY.—Light Retail Dispensing and Prescribing Business; returning nearly £5,000 under management; plenty of scope; important town; price £2,750; references required.

2.—MIDLANDS.—Mixed Family and Photographic Business; old-established; turnover exceeds £3,000 per annum; modern double-fronted shop, in main street, growing population; terms, valuation of stock and fixtures, about £2,000.

3.—YORKSHIRE.—Cash Retail Business, in prominent corner position; returns, £1,450; neglected through ill-health; lock-up shop, fine windows; stock worth over £450; price for quick sale, £780.

4.—PORTSMOUTH.—Profitable Cash Retail, mostly drugs, opening for N.H.I. and Photo; returns, £800; plenty of scope; low rent; house available shortly; fully stocked; price £550.

5.—KENT (50 Miles Out).—Profitable Cash Retail, with Kodak Agency; returns, over £1,200; net profit, £400 to £450; low rent, on lease, good house and shop; no near opposition; fully stocked; price £700.

6.—LONDON (KENT SUBURB).—Good-class Dispensing and light Family Retail, in good position; present returns, £3,000; scope for increase; good house attached; well fitted and stocked; price £2,000.

7.—LONDON (WEST MIDDLESEX).—Good Middle-class Cash Retail, in very best position; returns last year, £3,250; good profits; excellent house; long lease; fully stocked; price about £2,500.

## BUSINESSES WANTED.

### Special Notice to Intending Vendors.

Messrs. Berdoe & Fish are in immediate want of sound businesses in all parts of England, especially London, South Coast, S.W. and Western Counties, Midlands, and Home Counties, at prices ranging from £800 to £3,000.

Private Register Kept. - - - Terms sent on Application

ESTABLISHED 1870.

Telephone: 651 Museum.

## The Association of Mnfg. Chemists

— LIMITED —

Head Offices: 26-28 Kimberley House, Holborn Viaduct, London, E.C.1 (and at 2 Bixteth Street, Liverpool).

PARKIN S. BOOTH, Accountant and Valuer. PHONE: CITY 6942-43

### WE HAVE THE FOLLOWING BUSINESSES FOR DISPOSAL.

1.—DOVER.—Retail Corner Pharmacy in main street; well-fitted and fully stocked. Returns £15 weekly, but could be easily doubled; good scope for general Photo and Optic development; little opposition. Lock-up shop, with store-room and cellar, but living accommodation might be arranged. 20 years' lease at £20 per annum. Price £625 or offer.

2.—SURREY.—Small Manufacturing Business; premises excellently fitted and suitable for factory use; near station. Held on lease, with 18½ years to run, at £60 per annum. Further particulars on application.

3.—MIDLANDS.—For immediate disposal by order of trustee under deed of assignment, small Retail Business, with N.H.I.; stock about £200; fixtures, £150. Returns £10 weekly, exclusive of N.H.I., but good prospects for development, as business was only recently established. Rent, including living accommodation, 14s. per week. Lease might be arranged.

4.—LONDON, N.—Good Retail Business, taking £1,500 per annum; well-stocked and fitted; little opposition. Two good living rooms; 7 years' lease, with rent, £52 per annum; inclusive price, £950.

5.—SUFFOLK COAST.—High-class, well-situated, old-established Business, with N.H.I. Good scope for Optics and Photo; Kodak agency. Excellently fitted and well stocked. Returns approximately £1,900. Good living accommodation. Price, £1,350, or sale at valuation; 20 years' lease to run at £40 per annum. Rates £12.

**STOCKTAKING.**—Now is the time to take your stock. Perhaps it is too much trouble or you have not the time to spare. Then why not consult the Practical Firm who will do this work for you for a small inclusive fee, without interference with your work. For full particulars write as above.

ALL VALUATIONS HAVE THE PERSONAL ATTENTION OF F. J. BRETT, M.P.S.

Transfer Agents and Valuers,

73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

SOUTH COAST.—Returns £750; can easily be doubled, owner's time being fully occupied; good corner position; very low rent on lease; price £650, less than value of stock and fixtures; good opening for Photo. or Optics.

YORK.—General Light Retail; returns about £2,000; well-fitted shop; goodwill, £250; stock and fixtures at valuation, about £1,200.

KENT.—£2,000 returns; large Kodak trade; no N.H.I.; good house; electric light throughout; price £1,100; good.

## BUSINESSES WANTED.

## CHARLES C. MARSDEN

Valuer, Transfer Agent and Stocktaker,

44 Sholebroke View, LEEDS.

Has the following businesses for disposal:—

Hull, £850; Goole, £1,100; Grimsby, £3,000; Dover, £625; Bradford, £550.

## ERNEST J. GEORGE

BE PREPARED FOR INCOME TAX RETURN BY HAVING STOCK VALUED AND ACCOUNTS PUT IN ORDER

3 ST. PAUL'S CLOSE, WALSALL.

Tel. 774.

## PARTNERSHIPS.

PHARMACIST (lady), with excellent Retail experience and small capital, wishes to come to terms with another; object, Partnership in London suburb. 22/699, Office of this Paper.

SOUTH AFRICA or Australia.—Wanted, Partnership in well-established business by Chemist and Qualified Optician. Capital about £1,000. Replies treated in strict confidence. 26/16, Office of this Paper.

## AGENCIES.

AGENTS required for sale of well-known Proprietary Article to Retail Chemists in N., E. and S.E. Counties; must be live men with good connection and references; liberal commission. State area covered, number and class of goods carried. 21/27, Office of this Paper.

REPRESENTATION.—Gentleman, aged 32, well known in Sheffield and district, wishes to represent Pharmaceutical, Druggist Sundry, Optical or Photographic House in South Yorks, Lincs, and North Derby (Sheffield centre) on salary or commission; Sole Agencies, British or foreign, considered. Address, in confidence, "Representation," 22/22, Office of this Paper.

TOILET Requisites!—Take advantage of the exchange by buying French products. A French manufacturer of tooth paste, shaving sticks, powder puffs, etc., would appoint as Sole Agent in Great Britain a reliable firm with extensive sales organisation. Safety razor blades also offered. Write to The Agency, 69 Avenue Bosquet, Paris (7), France.

TRAVELLER, having an old-established connection with leading Chemists in Ireland, is open to take additional Agency for first-class house; highest references. Reply "J. A." 27/4, Office of this Paper.

WELL-KNOWN Manufacturing Chemists require Agents with good connections in various parts of the U.K. to sell, on commission, basis products of their manufacture. State commission expected, references, area covered, etc. 21/4, Office of this Paper.

WELL-ESTABLISHED firm of Toilet Soap Makers and Perfumers are open to negotiate with Wholesale Houses in kindred trades for representation abroad, either part guarantee or commission basis. Apply, stating full particulars, to 20/637, Office of this Paper.



**TENDERS.****CORPORATION OF LONDON.****DISINFECTANTS.**

**T**HE Sanitary Committee of the Corporation of London are prepared to receive Tenders for the supply of such Disinfectants and Chemicals as may be required by the Corporation for a period of twelve months from the 1st July, 1923.

A list of such Disinfectants, etc., and Forms of Tender may be obtained at the Office of the Town Clerk, Public Health Department, Guildhall, E.C.2.

Tenders, which should be on these forms, addressed as above, and endorsed "Tenders for Disinfectants, etc.," must be delivered on or before the 17th day of April, 1923.

The Committee do not pledge themselves to accept the lowest or any tender.

Guildhall, E.C.2.  
March, 1923.

BELL.

**BUSINESSES WANTED.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**BIRMINGHAM.**—Drug Business, Retail or Wholesale, required, preferably near city; prompt cash will be paid. 26/11, Office of this Paper.

**BUSINESS** wanted, Wholesale Manufacturer, that would amalgamate with existing business in the Midlands; any Chemical or allied lines considered. Write confidentially, 22/694, Office of this Paper.

**CHEMIST'S** Business wanted in the Manchester, Stockport or Buxton district. Full particulars to 25/31, Office of this Paper.

**GENUINE** Chemist's Business wanted soon, in healthy locality; living accommodation necessary; London suburbs or within 50 miles of City; turnover, about £25 weekly (net profit about £350 p.a.); would undertake Managership with view to early succession. Cash available. Full particulars (in confidence), first letter, "Carolus," 98 Greyhound Lane, Streatham, S.W.16.

**GENUINE** Business wanted in suburb of large town; good living accommodation essential; Midlands or South preferred; taking about £2,000; full particulars as to lease, etc.; must bear every investigation. 24/36, Office of this Paper.

**PHARMACY** or Mixed Drug Stores to suit experienced unqualified; healthy English non-industrial locality; scope for Prescribing; small, but good, house attached; property must be purchasable at low figure; business at reasonable valuation; strict investigation; no agents; cash waiting. Send full confidential details to "Anglo," 22/29, Office of this Paper.

**PHARMACIST**, with wide and high-class experience, desires to take over Business on easy terms; preferably with house and garden attached; North preferred. 22/28, Office of this Paper.

**WANTED**, Drug Stores in good locality; seaside; Lancs or Yorks preferred, but not essential; neglected business not objected to if scope for increase; will pay £5 for information (if acted on) of a shop to let suitable for same. Full particulars to "Confidence," 23/33, Office of this Paper.

**WANTED**, Drug Store, genuine, in or near Birmingham if possible; state turnover, rent, living accommodation. 25/1, Office of this Paper.

**PREMISES FOR SALE.**

**SOUTH COAST**, Folkestone, near.—For Sale, well-built Freehold Shop and Premises, with two Flats, situated on main road, busy thoroughfare, growing neighbourhood, two miles from the sea; most suitable for Chemist; no similar trade near; vacant possession. Further particulars and price apply "Leafield," Broadmead Road, Folkestone.

**BUSINESSES FOR DISPOSAL.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**BRADFORD.**—Cash Drug Stores; smart appearance, inside and out; attractive window; mahogany fittings in best condition; electric light; lock-up shop, with stock room above and cellar, situated on best main road from centre; returns £750; rent £40; lease; good opening for qualified man to do N.H.I.; terms, valuation of stock and fixtures, about £550, or cash offer entertained. Marsden, Valuer, 44 Sholebroke View, Leeds.

**EAST Coast (Holiday Resort).**—Thoroughly sound Dispensing and Photographic business; valuable Kodak agency; good position; returns last 3 years average £2,500; good profits; lease about 1½ years to run; property can be purchased; rent £40; house attached; open to every investigation; price £750; a bargain. 26/20, Office of this Paper.

**HULL.**—In busy thoroughfare, centre of city, an old-established Chemist's Business and Veterinary Medicine Stores, to be sold at practically valuation price, £850, or reasonable offer; house attached, with every convenience; vacant possession; comparatively low rent; lease granted; splendid opportunity for up-to-date Chemist. Chas. C. Marsden, Valuer, 44 Sholebroke View, Leeds.

**LONDON, E.**—Drug Store Business in busy neighbourhood; lock-up shop; house attached, available later if required; low inclusive rent; great scope for development; no near opposition; bargain; nearest offer to £250 secures. 24/38, Office of this Paper.

**LONDON, N.W.**—Owing to ill-health, for sale at a low price, nearly new Business, in main shopping thoroughfare; splendidly fitted and stocked; doing over £2,000 and could be very easily doubled for sale at the low price of £2,750 for quick sale; 14 or 21 years' lease; Kodak agency; living accommodation, or could be let off for the rent; good opening for Optics and Wireless; all cash, no booking; only bona fide inquiries answered. 25/53, Office of this Paper.

**LONDON (Suburb).**—Modern Pharmacy, well fitted and stocked; corner position; double-fronted shop; Kodak agency and N.H.I.; takings, under management, £1,300; could be considerably increased; good opportunity for a smart Chemist; price, fixtures, lease and goodwill, £400; stock at valuation. Apply 25/26, Office of this Paper.

**NEAR City; main road; Pharmacy**, with basement (lock-up); taking over £20; keen, qualified man could easily treble takings; trial given if necessary; most thickly populated district round London; no near opposition; well stocked; electric light; good reason for disposal; price for quick cash sale, £700. Write 25/12, Office of this Paper.

**NORTH-EAST DURHAM.**—Country Business; turnover over £1,000, with N.H.I.; good profits; rental 12s. 6d. weekly clear; price £600, nearest offer, or value stock and fixtures and goodwill; reason for disposal, owner going abroad. Reply 22/30, Office of this Paper.

**MEDICAL** Mail Order Business for Sale; seven excellent lines, genuine formulae; advertised home and abroad for short period; has great future if full publicity given; large stock, trade and mail order literature, showcards, furniture, and lease of office; price £350 net. E. Patten, 150 Southampton Row, W.C.1.

**SOUTH COAST.**—Well-established Business in large commercial town and pleasure resort (population quarter million); trade £2,000; price, including goodwill, stock and fixtures, £1,500. Apply 22/703, Office of this Paper.

**PROGRESSIVE**, healthy, seaport, East Coast.—Magnificent Pharmacy with two large attractive windows; 8-roomed house, conservatory, garage and garden; rare opportunity to buy a genuine old-established business; specialities pay the rent; illness cause of disposal; price £3,000. Further details on receipt of references. Chas. C. Marsden, Valuer, "Highfield," Sholebroke View, Leeds.

**THE** Proprietors of British Patent No. 8,076, dated 3rd April, 1912, for "Improvements in the Manufacture of Acetic Acid," are desirous of disposing of the Patent Rights or of negotiating for the grant of Licences to work thereunder. All inquiries should be addressed to Johnson & Willcox, 47 Lincoln's Inn Fields, London, W.C.2.

**PREMISES WANTED.****SHOP PREMISES REQUIRED.**

**WE** require for a large established firm Shop Premises in the main shopping street of good London suburbs, country and provincial towns; best positions only considered. Send details, in confidence, to "Premises Manager," Vickers & Stanley, 317 High Holborn, W.C.



**FOR SALE.**

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

**C**OMPLETE Shop and Dispensary Mahogany Fittings, wall cases, screen with large mirror, nest of 40 mahogany-fronted drawers with lockers underneath, glass labelled, counter with 36 drawers; practically new; cost £250, will sell for £125, or best offer. To view, apply Tyson, 222 Abbey Road, Barrow-in-Furness.

**F**OR Sale, complete Fittings Chemist's Shop, 13 ft. Drug Fixture with 48 drawers, 4 Lockers, 12 ft. mahogany Counter, Dispensing Counter, Shop Rounds, Carboys, Counter Case, etc.; cheap to clear. Apply P.C.B. 17/33, Office of this Paper.

**O**PTICAL Trial Case, leather covered, plush lined; lenses, 27 pairs concave, 27 pairs convex, 12 cyl. concave, 12 cyl. convex, 1 trial frame, 7 tinted lenses and three not, £6 10s.; bargain. 25/36, Office of this Paper.

**1,000 STOPPERED Burettes** (second quality), 50 c.c., 1s. 6d. each for quantities. Jules Lang & Son, Charlton Place, Islington, N.1.

**SITUATIONS OPEN.**

[HOME.]

**RETAIL.**

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**BIRMINGHAM.**—Smart Qualified Manager required for Business near the centre of the city; excellent opening for a really capable man with a good knowledge of Photography; salary and commission. 25/21, Office of this Paper.

**BIRMINGHAM** (near).—A vacancy occurs in a high-class Pharmacy for a Senior Qualified Assistant; applicants should have had very good experience and be able to offer undeniable references; this is a post offering scope for a man of initiative and ability; age not under 28. Please state full particulars of experience, salary required, etc., to 18/39, Office of this Paper.

**BIRKDALE, LANCS.**—First-class business. Qualified Assistant wanted. Apply, with full particulars, age, salary, etc., to Langton & MacConnell, 22 Lord Street, Liverpool.

**BRADFORD.**—Qualified Locum required for a few days at Easter. State terms, etc., 24/30, Office of this Paper.

**ESSEX.**—Wanted, Assistant; elderly, active, qualified preferred, or unqualified Junior, for Dispensing and Counter work in country town; moderate salary; must be energetic and trustworthy; state salary required in first letter, with photo. Apply 26/8, Office of this Paper.

**LONDON.**—Qualified Manager immediately, middle-class business, about 30, married; live on premises; excellent accommodation; must be thoroughly experienced, honest, pleasant at counter, expert Salesman, and Window-dresser; reasonable salary and very liberal commission to ambitious man wishing to settle. 24/18, Office of this Paper.

**LONDON.**—Manager required, age 26 to 40; must be an expert Window-dresser and good Salesman, with a thorough knowledge of Toilet and Sundries side of business, and Photography. Apply by letter, giving full particulars, to 22/695, Office of this Paper.

**LONDON, E.**—Qualified Assistant with knowledge of Photography; tactful Salesman. W. Shadforth, Ph.C., 63 Grove Road, Bow, London, E.3.

**LONDON, N.W.**—Capable, well-trained Junior; good knowledge of Photography and Dispensing essential. Full particulars by letter, in first instance, enclosing photo, stating salary required, to Brickell and Jones, M.P.S., F.S.M.C., 295 High Road, Brondesbury, N.W.6.

**LONDON, S.E.**—Wanted, immediately, qualified Manager; references must bear strictest investigation. Reply in first letter, giving full particulars of experience and salary required, "Statim." 24/19, Office of this Paper.

**LONDON, S.E.**—Qualified Manager required for a purely working-class business with plenty N.H.I. Dispensing; excellent opportunity for smart man anxious to get on and make comfortable permanency. 25/210, Office of this Paper.

**LONDON, S.W.**—Qualified Manager for branch; good Photographic Salesman, well up in Toilets, Window-dresser, accurate Dispenser; vacancy occurs April 28. Write P.C.B. 20/26, Office of this Paper.

**LONDON, S.W.**—Reliable and gentlemanly Assistant, chiefly for Dispensing in a high-class Pharmacy, accurate and quick, and must be a neat hand writer. State full details of experience and salary required (outdoors) to "Immediate," P.C.B. 20/32, Office of this Paper.

**LONDON Suburb.**—Wanted, in five or six weeks, qualified Senior capable of taking charge; well educated, gentlemanly; aged 30-35; proved Salesman, thorough knowledge of Photography, including practical, good business man, and with undeniable references; first-class family business; three other Assistants. Full details and photo, which will be returned at once, "Developer," 22/31, Office of this Paper.

**LONDON, W.**—Chemist Optician; qualified and experienced in sight testing and the routine of a Retail Optician; capable of taking charge of Optical department and also assisting at Dispensing Counter. Please apply with full particulars of age, height, experience, salary required, etc., 25/14, Office of this Paper.

**LONDON, W.**—Junior or Improver immediately; good chance for gaining experience in quick Cash Retail and Dispensing; must be agreeable to customers, honest, industrious, efficient; moderate salary; knowledge of Photography essential; outdoors. 25/40, Office of this Paper.

**MANCHESTER.**—Qualified Assistant for good-class Retail and Dispensing business; one with thorough knowledge of Photographic trade given preference. Apply, with full particulars, to R. G. Edwards, Pharmaceutical Chemist, Fallowfield.

**MANCHESTER.**—Qualified Manager; energetic and trustworthy; good Window-dresser essential; well up in Kodak Photography; able to do buying; scope for live man with initiative and ability; state salary required. 25/9, Office of this Paper.

**NORTH MIDLANDS.**—Manager required; qualified Manager and Optician preferred; must be good Salesman, and able to work up business; good knowledge of Prescribing essential; knowledge of Photography. Write, giving full particulars and enclose photo, 20/9, Office of this Paper.

**SHEFFIELD.**—Unqualified Assistant, about 24 years of age; single; thoroughly competent and used to N.H.I. Dispensing, knowledge of Photography, for light Retail and Dispensing business; please state full particulars age, experience, salary, etc. 25/11, Office of this Paper.

**SOUTH LONDON.**—Wanted, a fully qualified Lady Dispenser; capable Window-dresser, good Saleswoman; thoroughly experienced; state qualifications; age, salary required and past references. 26/4, Office of this Paper.

**SOUTH WALES.**—Assistant required; smart appearance; Window-dresser; Counter and Dispensing experience essential. Apply, stating experience, salary required, references, etc., enclosing photo if possible, to Gilbert Thomas, Chemist, Risca, Mon.

**SOUTH WALES.**—Lady Assistant required, outdoors; good appearance; Window-dresser; Counter and Dispensing experience essential. Apply, stating experience, salary required, references, etc., enclosing photo if possible, 20/7, Office of this Paper.

**YORKSHIRE.**—Qualified Senior Assistant, age about 27-30, required in April for good-class Pharmacy, with N.H.I.; must be well recommended; energetic, good courteous Salesman, experienced Dispenser, and able to take charge; permanency offered to trustworthy and capable man. Full particulars, stating height, etc., and salary required, to 25/15, Office of this Paper.

**A CAPABLE** Lady Dispenser, Hall certificate, must have had shop experience, required for branch in Richmond and West Ealing district. Apply by letter, giving full particulars of training, experience, age and salary required to 22/697, Office of this Paper.

**A SMART** Assistant, outdoors, wanted for Photographic and Chemist Counter; must be good Window-dresser. Brooks, 509 New Cross Road, London, S.E.

**ASSISTANT** required for London area; age from 25 to 35; must be a good Window-dresser, accurate Dispenser, and smart Salesman, with knowledge of Photography. Apply, by letter, giving full particulars, to 22/696, Office of this Paper.



**ASSISTANT:** 25-35, tall, energetic, of smart appearance; must be a good Salesman and possess a competent knowledge of Kodak Photography; Window-dressing; experience an advantage; good references essential; state usual particulars, salary required, when disengaged; Chater, Chemists, Watford.

**CHEMIST**, qualified, wanted to take charge of branch. State age, experience and salary expected, enclosing copies of not more than two recent testimonials, to 22/698, Office of this Paper.

**EXPERIENCED**, reliable Branch Manager required for opening Dispensing, Photographic, Wine Business; Optics an advantage; abstainer. Full particulars, experience, salary and commission, etc., to "Welsh Coast," 25/22, Office of this Paper.

**JUNIOR Assistant** required for high-class Pharmacy; must be capable Dispenser. Please give full particulars of experience and references in first letter to 22/691, Office of this Paper.

**MANAGER**, accustomed to up-to-date Dispensing business, required for Central London; outdoors; liberal terms. Apply, 22/702, Office of this Paper.

**QUALIFIED Assistant** required; must be a quick and accurate Dispenser (N.H.I.), good Counterman, and Window-dresser. Apply, stating salary required and giving full particulars as to age, experience, etc., H. E. Graham, Ltd., Cash Chemists, 197 Ridgman Street, Bolton.

**QUALIFIED man** wanted immediately, young and active, for light retail business, good Salesman and Window Dresser; must have knowledge of photography; state age, experience, salary required, and references. Applications unanswered in three days courteously declined. F. Poyser, Wellgate Pharmacy, Peterham.

**QUALIFIED part-time Assistant** required at once by West-End chemist; good Counterman, with knowledge of French preferred, but not essential. Elderly man or young qualified woman not objected to. State days and hours at disposal, and salary required, to "Secretary," 7 Abinger Road, Bedford Park, W.4.

**QUALIFIED**—Young gentlemanly Assistant required for West-End Dispensing and Counter Business; must be energetic, capable, and have similar type of experience; immediate and permanent position to suitable man. Full particulars, in first letter, to 22/700, Office of this Paper.

**REQUIRED** by leading firm of West-End Pharmacists. A qualified Junior accustomed to high-class Counter work. Apply, stating age, height, experience and salary required, to C.B. 19/38, Office of this Paper.

**THE PROSSER ROBERTS CO.**, Pharmaceutical Chemists, 13 Church Street, Camberwell, S.E., require immediately a young M.P.S., not more than 30, used to brisk trade in working-class district. Also a Male Improver, not more than 19 years of age. Reply by letter in first instance, giving fullest particulars as to experience, appearance, salary, etc., etc. All communications not acknowledged in two days to be considered as respectfully declined.

**UNQUALIFIED male Assistant** required at once; must be an accurate Dispenser and have knowledge of Photography and good class Counter Work. Apply, enclosing references, to C. Harrison, The Pharmacy, Grayshott, Hants.

**WANTED**, qualified Chemist. State age, wages, and when at liberty to A. L. Peters, 16 Branch Road, Armley, Leeds.

**WANTED**, immediately, qualified Assistant for country business in Home Counties; Dispensing, Photo, Stock. Full particulars, salary, references, etc.; applications not answered six days respectfully declined. 24/34, Office of this Paper.

**WANTED**, qualified Assistant, single, about 35, for country town in Devon, for Counter, Prescribing and Stock; knowledge of Photography; no Sunday duty; permanency. State terms and references in first letter. 26/10, Office of this Paper.

**WINDOW-DRESSER**.—Assistant, chiefly as Window-dresser; must be conversant with modern display methods and have knowledge of Kodak Photography; previous Window Display experience essential; progressive permanency for right person; state all particulars of experience, salary required, etc. Chater, Chemists, Watford.

**300 A YEAR** (salary and bonus).—Wanted, for S.W. London, a competent Qualified Manager, for modern high-class store trade. Must be a first-class salesman, window dresser, and of good appearance and address. State age, height, experience, and salary required in first letter, to London Drug Stores, Ltd., 75 West Street, Brighton.

## WHOLESALE.

**NORFOLK, Suffolk and Essex**.—Wholesale House wish to correspond with gentleman covering same with a view to commission. 22/686, Office of this Paper.

**ENERGETIC Salesmen** calling on Perfumers and Soap Manufacturers, etc., to sell special Synthetics; men with good connection given very liberal commission; good side line. Apply 21/681, Office of this Paper.

**LEADING Firm** of Provincial Wholesale Druggists have a vacancy in their Laboratory for an Assistant with all-round knowledge of galenical manufacture; applicants must have experience in organisation and up-to-date methods. Replies, giving full particulars, 22/687, Office of this Paper.

**MAN**, with established connection, to carry full range of tin line; (Creams, Ointments) lines on commission basis as side line; Hull, Durham to Newcastle. Kaputine, Ltd., Kaputine Works, Manchester.

**OLD-ESTABLISHED firm** of Importers and Manufacturers having numerous lines in their collection of great interest to Chemists are open to appoint few Representatives with established connections to carry their lines; liberal commission and part expenses to right men; great possibilities. P.C.B. 20/33, Office of this Paper.

**POWDER Puff manufacturers** require Provincial Travellers with extensive personal connection amongst buyers, Retail and Wholesale; commission basis 20 per cent.; valuable territory open; large range; competitive prices; previous Puff selling experience essential; full particulars in strict confidence. 25/17, Office of this Paper.

**REQUIRED** by London house, Representative for Midlands; experience on this ground and a knowledge of Fine and Pharmaceutical Chemicals is essential. State age, qualifications and experience to 22/688, Office of this Paper.

**REQUIRED** immediately, young and energetic qualified Pharmaceutical Chemist, thoroughly experienced and efficient in analyses of Pharmaceutical products; practical laboratory experience an advantage. State age, salary required, enclosing photograph (if possible), etc., to R. Sumner & Co., Wholesale Druggists, Liverpool.

**SALESMAN** required by old-established Manchester firm of Chemists' Sundriesmen to travel mainly in Midlands and South Wales; commission terms; an excellent list of present customers to be worked, but applicants must be fully experienced in the trade, and have plenty of initiative and be first-class salesmen. State terms and experience. 23/21, Office of this Paper.

**WET Counter Hand**, for London house; must have disablement pension; state full experience. 21/663, Office of this Paper.

**WOMAN**, young, required for City depot to keep stock and pack small orders. State age, experience, and wage required. "Menthol," 22/690, Office of this Paper.

## [COLONIAL, INDIAN AND FOREIGN.]

**FRANCE**.—Young qualified Assistant for English and American Pharmacy in Paris; good-class experience essential; must be of good address and well recommended. State when at liberty, full particulars, to "N. N.," 24/29, Office of this Paper.

**PARIS**.—Assistant; knowledge of French. Age, height and photo (to be returned); when disengaged, salary, to Roberts & Co., 5, Rue de la Paix, Paris.

## Returning Photos, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants, with a stamped addressed envelope for reply, are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.



## SITUATIONS WANTED.

## RETAIL

## [HOME.]

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The ADVERTISER may if preferred have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

**A.A.A.**—ASSISTANT, 33; Public School; expert Dispenser, Salesman, Photographics, Window-dressing; disengaged. Lister, 81 High Road, Willesden Green.

**A.**—MANAGER, Senior, or Locum; qualified; 5 ft. 10 in.; 12 years' London experience. "Pharmacist," Sunnyside, Hartington Road, St. Margaret's-on-Thames.

**A** GOOD all-round unqualified Assistant; excellent references; Photography and high-class Window-dressing. Write 23/28, Office of this Paper.

**A** QUALIFIED, thoroughly experienced woman Dispenser wants post, Doctor, Institution, lock-up Surgery; would reside latter; Locum booked; moderate salary. "Dispenser," 108 Lower Richmond Road, Putney, S.W.

**A** QUALIFIED Young Lady, four years' excellent Dispensing and Counter experience; highest references; Brighton or near. Dale, 31 Highdown Road, Brighton.

**A** RELIABLE, energetic, pushful Saleswoman; Stock, Counter, N.H.I.; disengaged; London or near district. 90 Henslowe Road, E. Dulwich.

**A** SCOTCH Pharmacist, 31, resident London, would like to hear of progressive post; well recommended; experienced Manager, Rexall, Kodak; married. "Scot," P.C.B. 20/31, Office of this Paper.

**A** CCURATE Dispensing ensures Public Safety.—Qualified lady, well educated (London Matriculation), with all-round experience, including Window-dressing, Accounts, and D.D.A., desires post in good-class Pharmacy; highly recommended, energetic and trustworthy; interview. 26/1, Office of this Paper.

**A** DVERTISER requires post with Retail or Manufacturing firm; Photography, Book-keeping and some Dispensing and Manufacturing experience; tall; not afraid of work; reasonable remuneration to commence; satisfactory references. Gay, 18 Grenfell Road, Maidenhead.

**A** N up-to-date, middle-aged, energetic, qualified Pharmacist, now disengaged, requires position as Manager, Locum, or Senior Assistant; faultless references. Please wire or write, Williams, 21 Marcus Street, Carnarvon.

**A** NY district; 20 years' good London experience; temporary, permanent; unqualified; 43. "F.," 11 Kingsdown Road, Holloway, N.19.

**A** S Manager or Senior; permanency if possible; qualified; 30; married; excellent all-round experience; good references; personal interview arranged. "M.P.S.," 9 Harcourt Rd., Redland, Bristol.

**A** S Manager or Assistant; qualified; wide experience; competent and reliable; excellent references. Thomas, c/o Wilson's Pharmacy, South Bank, Yorks.

**A** S Manager or Senior; qualified; 32; thorough knowledge all branches of Pharmacy; 15 years' experience; well recommended. "Vivus," 25/16, Office of this Paper.

**A** SSISTANT, 20, requires situation; good experience in high-class business; Yorks preferred. Apply, Wintersgill, South View, Masham, Yorks.

**A** SSISTANT, unqualified, 30, tall, married, desires permanency; exceptionally good experience; quick, accurate Dispenser, Counter, Photographic, smart Salesman, languages. 23/19, Office of this Office.

**A** SSISTANT, Locum or permanent; tall; single; unregistered; 38; 20 years' experience in all classes of business; disengaged. Clutterbuck, 52 Thane Villas, Holloway, N.7.

**A** SSISTANT, age 20; disengaged April 6; tall; good appearance; accurate Dispenser, Photography, Window-dressing, Counter work. F. W. Baker, 142a Brownhill Road, Catford, S.E.6.

**A** SSISTANT, unqualified, 31; 10 years' West-End experience; Dispensing, Counter, Manufacturing and Packing own Proprietaries; excellent references; disengaged after 31st inst.; present situation 5 years. "Din," 56 Davies Street, W.1.

**A** SSISTANT, thoroughly experienced in all branches; highest references; hard worker. Hickson, 1 Sunderland Road, South Ealing, W.5.

**B** RANCH Manager; energetic; excellent all-round experience; thoroughly reliable; qualified. 25/230, Office of this Paper.

**D** ISPENSER (Lady), Hall qualification, requires post with Doctor or Chemist; temporary seaside position considered. "Dispenser," 63 Crewys Road, Childs Hill, N.W.2.

**D** ISPENSER (Hall), 28, male, married, requires post; experience Hospital, Retail and Surgery; E. London preferred. "L.," 175 Harold Road, Upton Manor, E.13.

**E** XPERIENCED Dispenser (Hall), lady; Locum or permanent; experienced Hospitals and Surgery; excellent testimonials; in London or near. 25/35, Office of this Paper.

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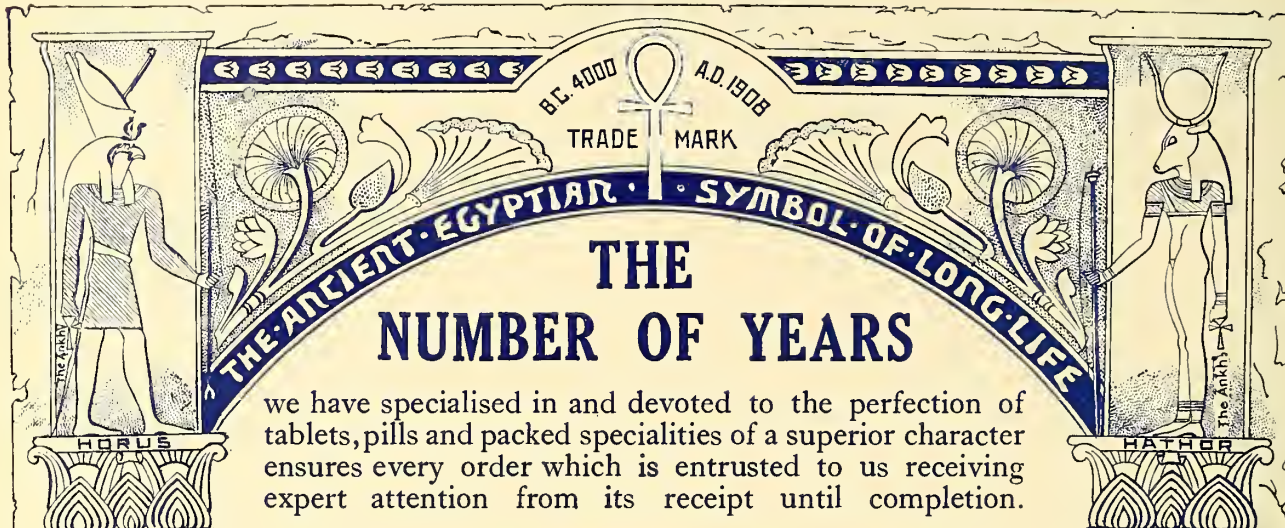
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